

Figure 1: Ribozyme Motifs

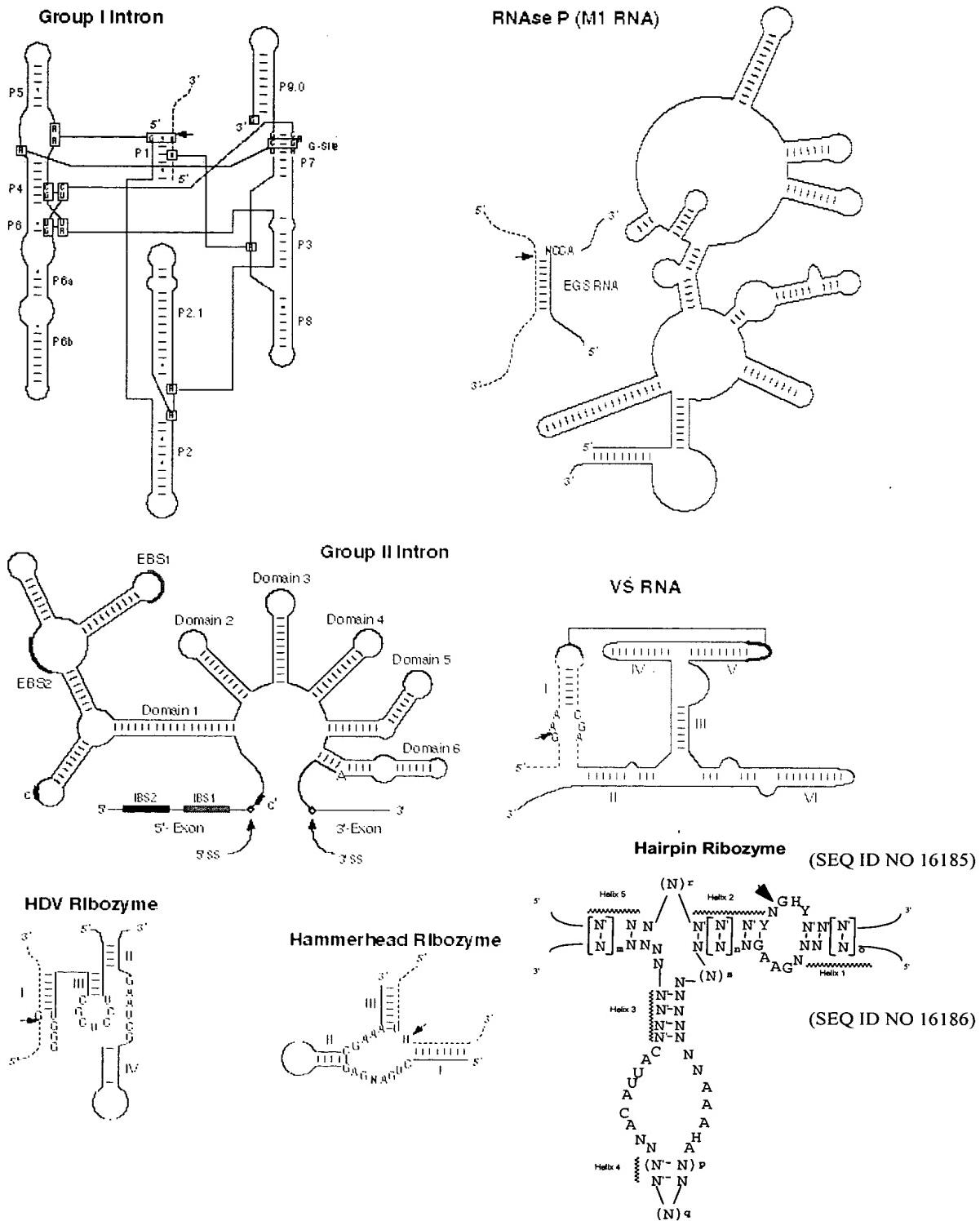


Figure 2: Examples of Nuclease Stable Ribozyme Motifs

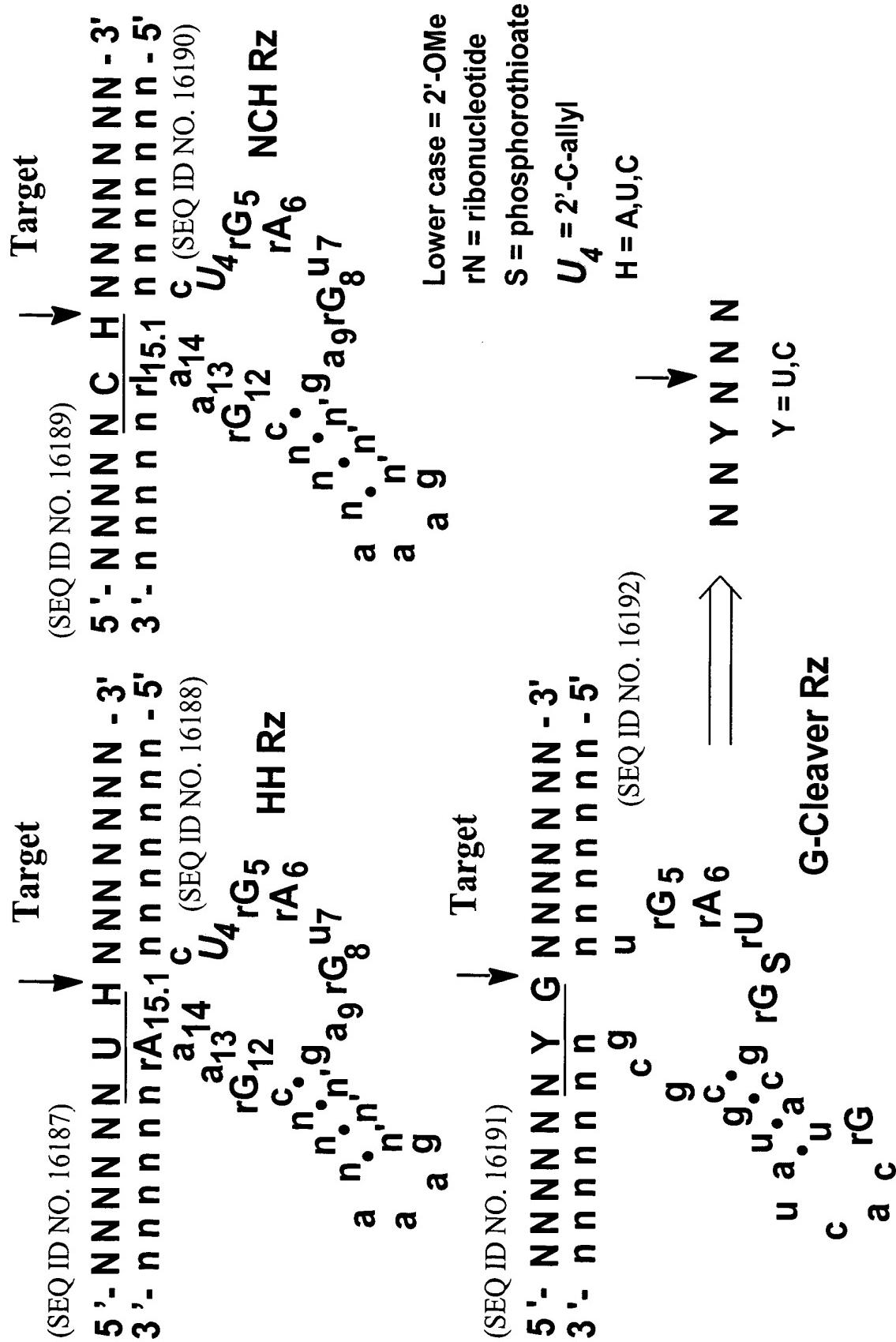


Figure 3: 2'-O-Me substituted Amberzyme Enzymatic Nucleic Acid Motif

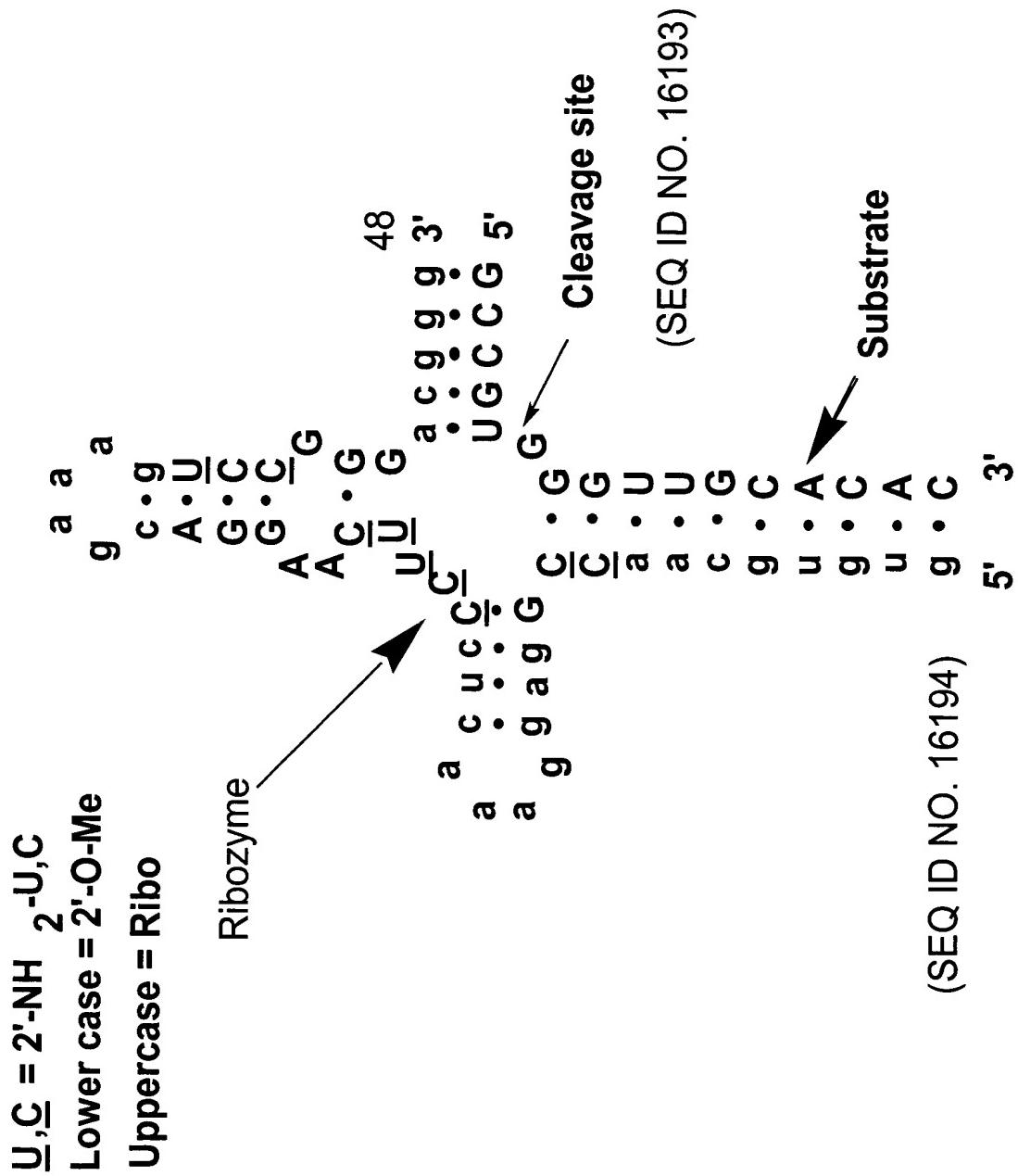


Figure 4: Stabilized Zinzyme Ribozyme Motif

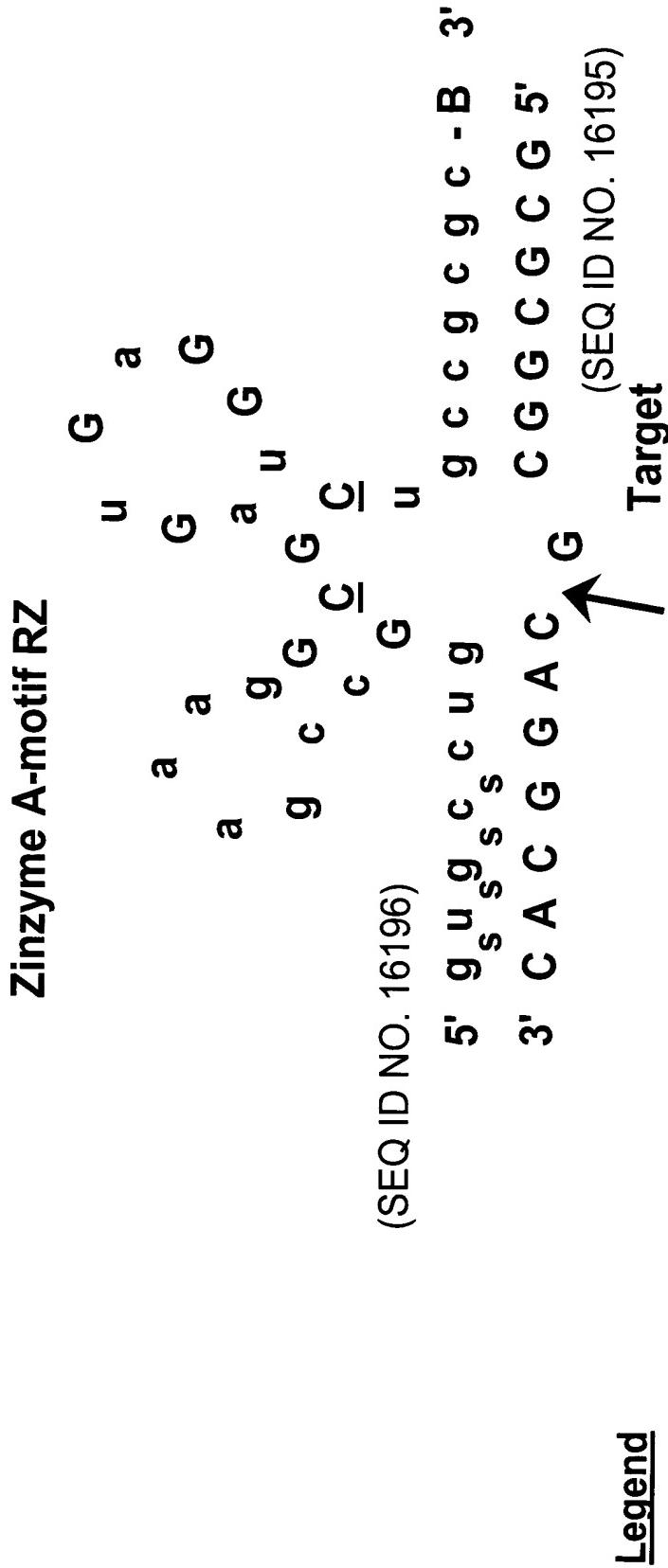


Figure 5: DNAzyme Motif

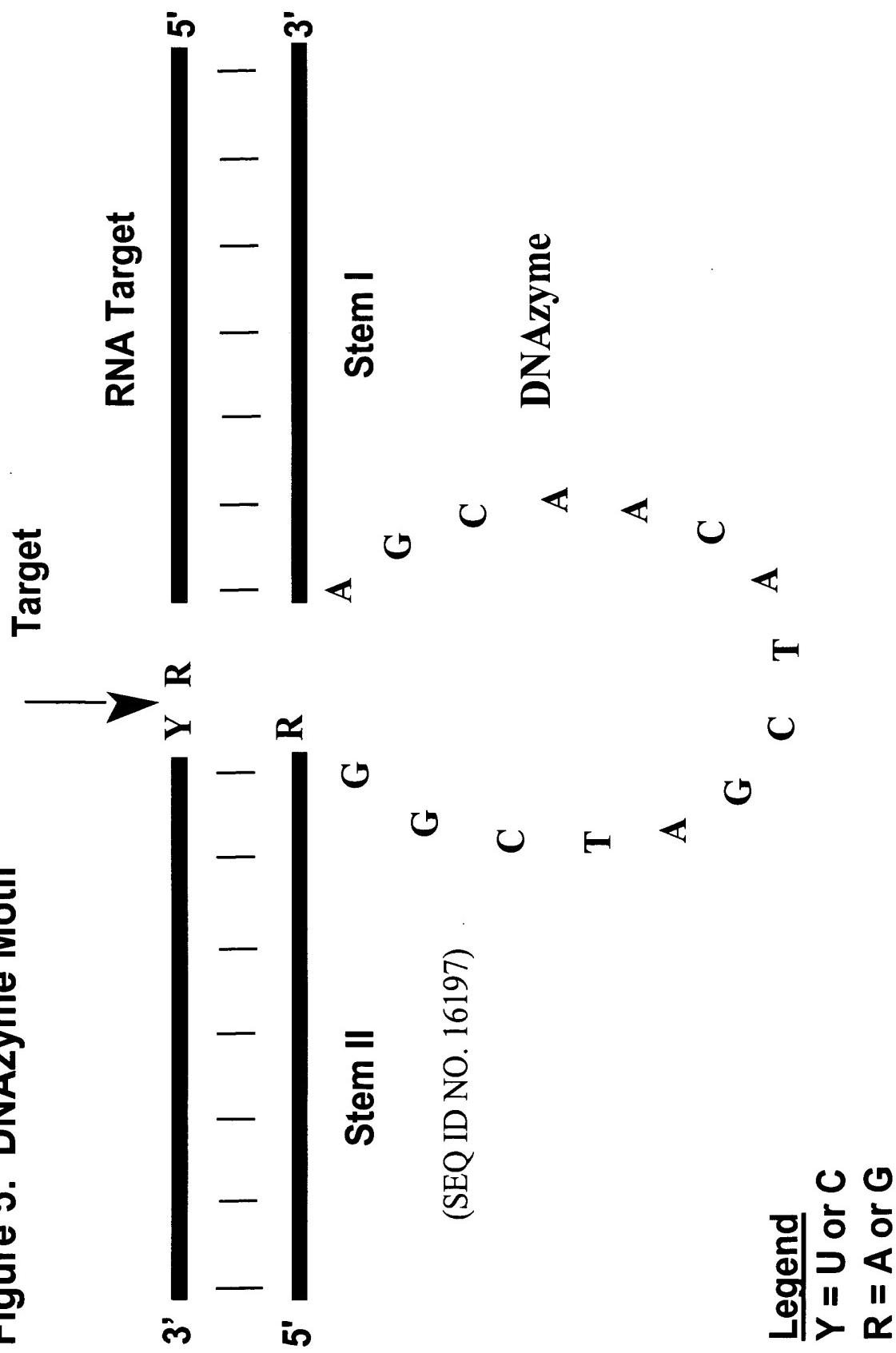


Figure 6: Change in Serum HBV DNA Levels Following 14 Days of Ribozyme Treatment of HBV Transgenic Mice

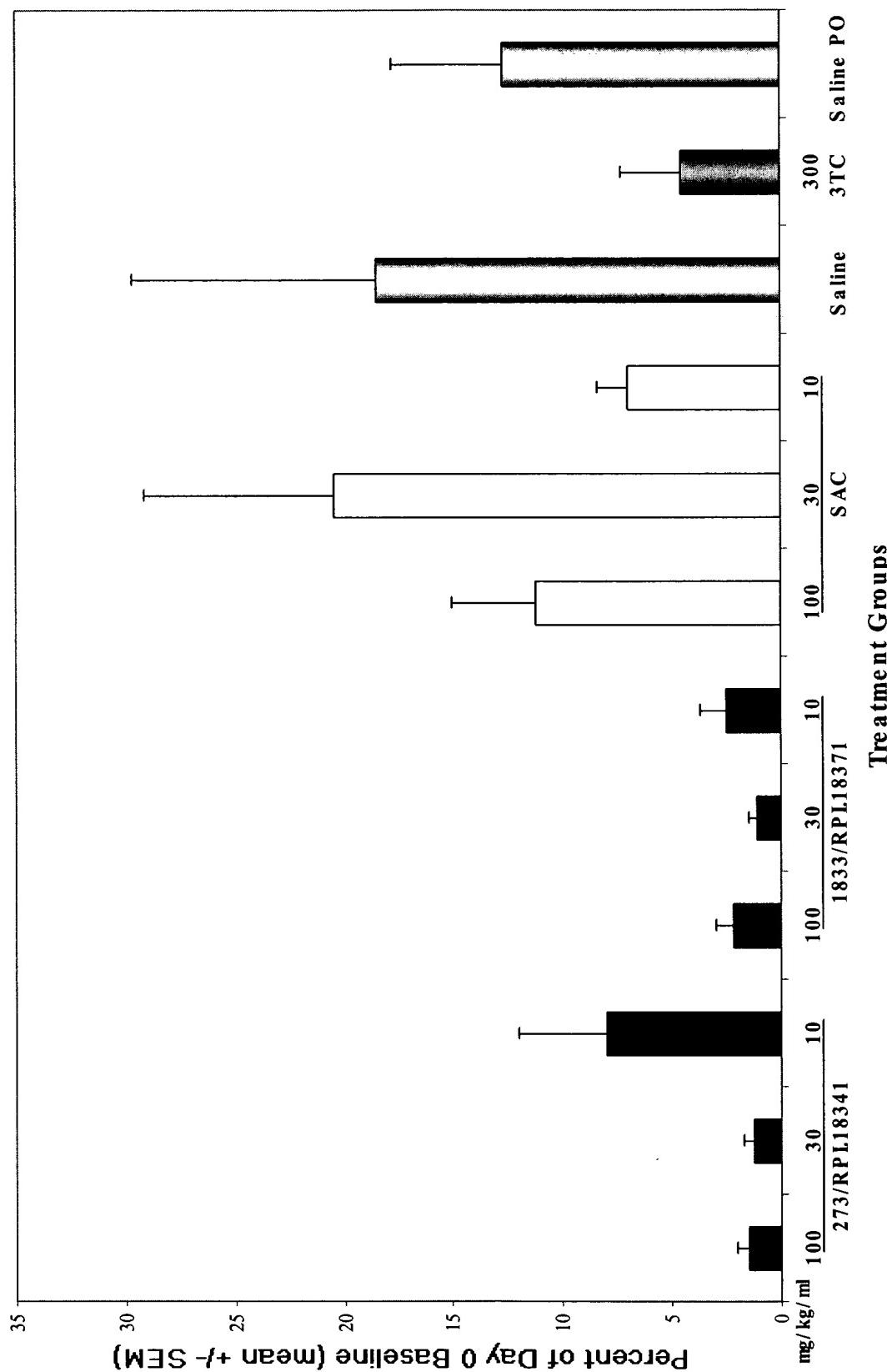


Figure 7: Mean Serum HBV DNA Levels Following 14 Days of Ribozyme Treatment of HBV Transgenic Mice

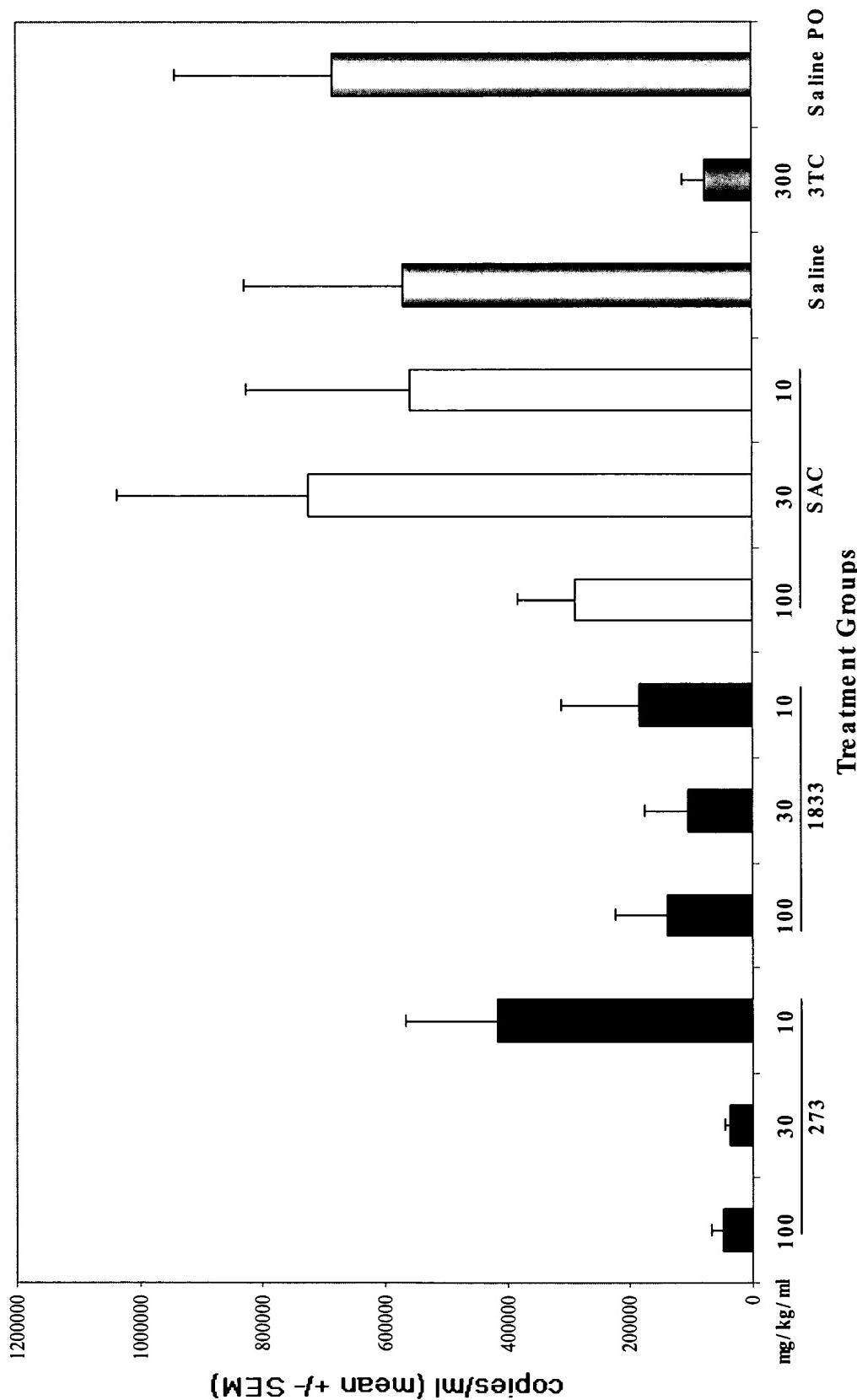


Figure 8: Change in Serum HBV DNA Levels (Log) Following 14 Days of Ribozyme Treatment of HBV Transgenic Mice

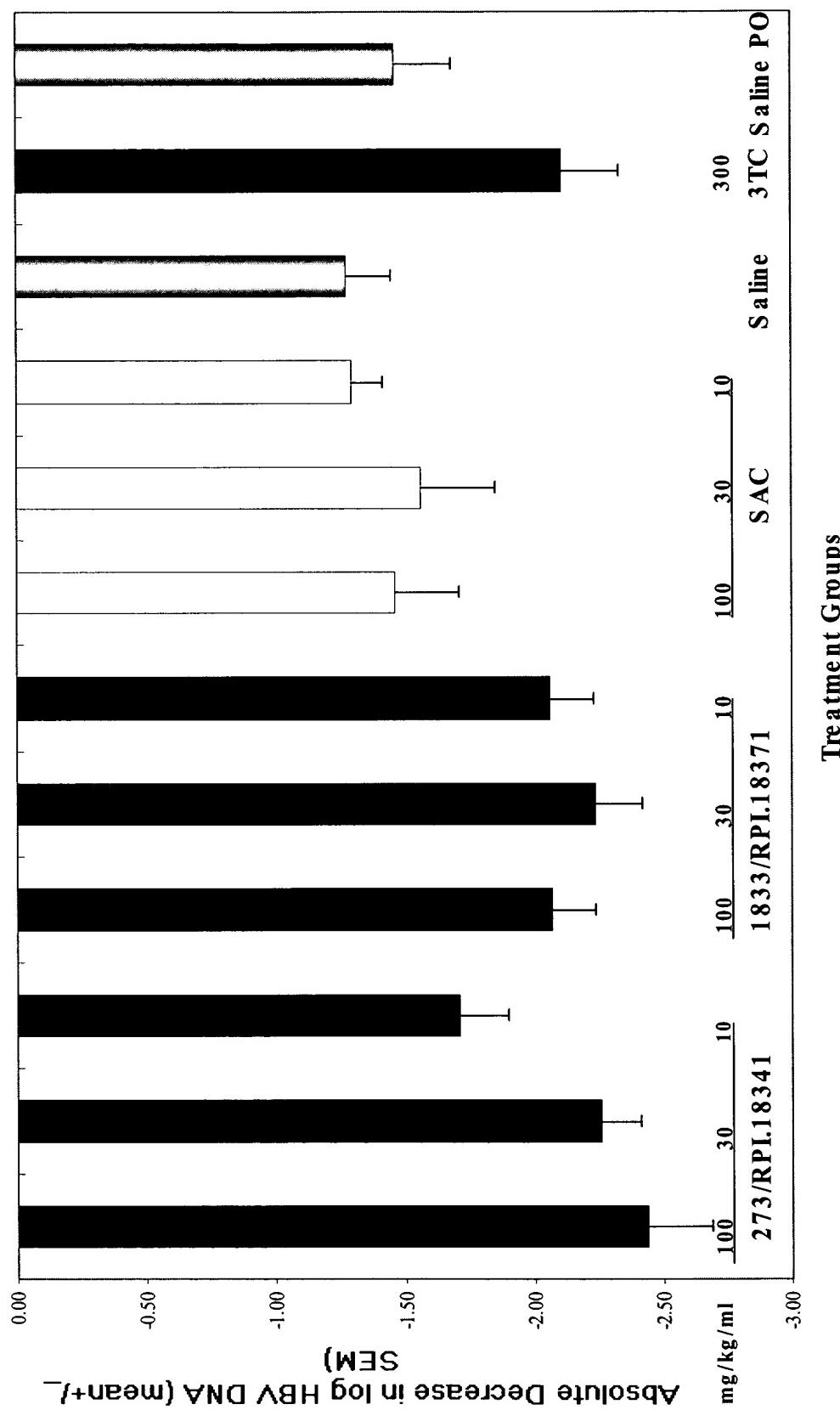


Figure 9: anti-HBV Ribozymes in HepG2.2.15 Cells: HBV DNA

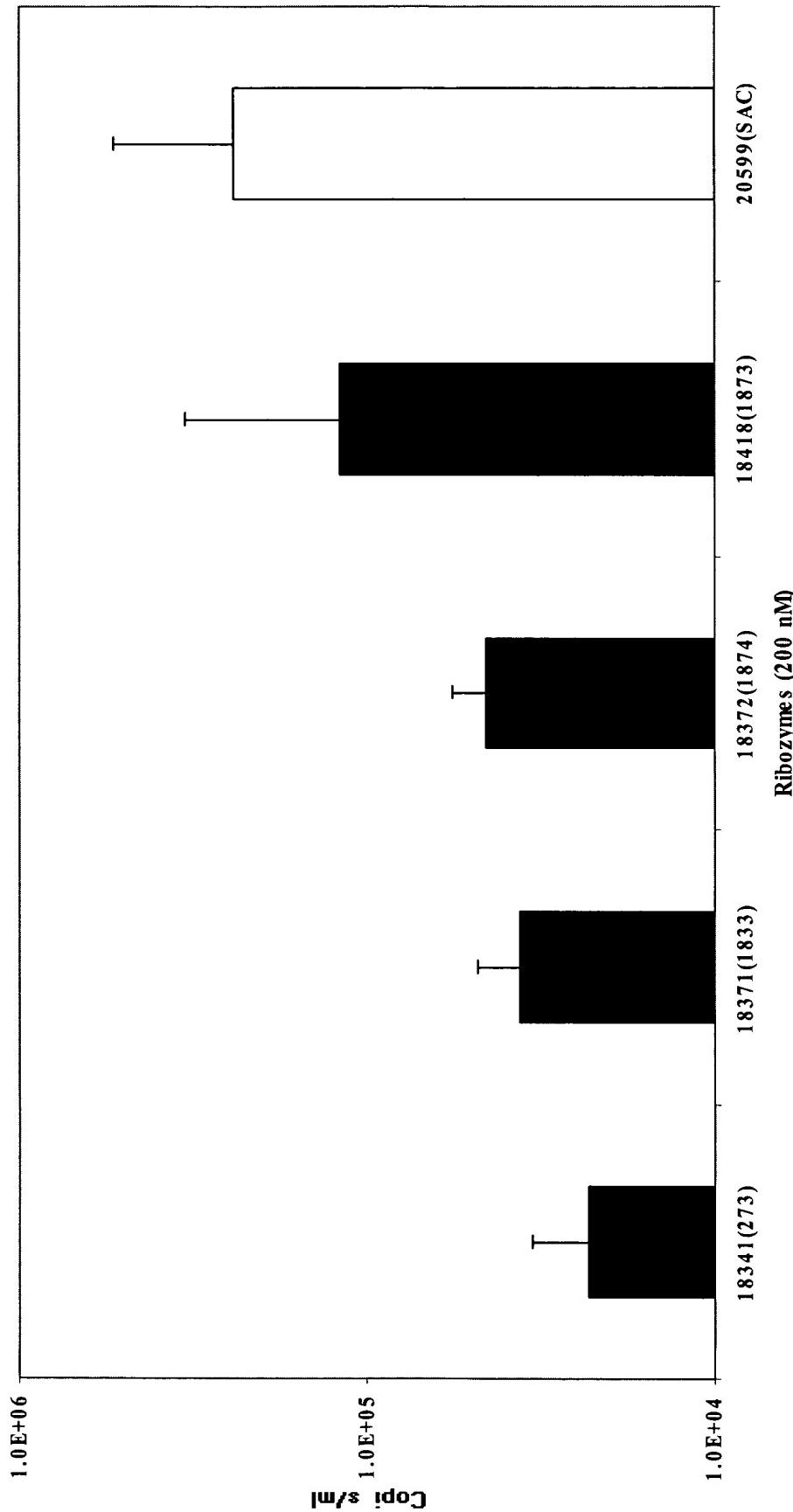


Figure 10: Arm, Loop, and Stem Variants of Anti-HBV Ribozyme Targeting Site 273: HBsAg Levels in Hep G2 Cells

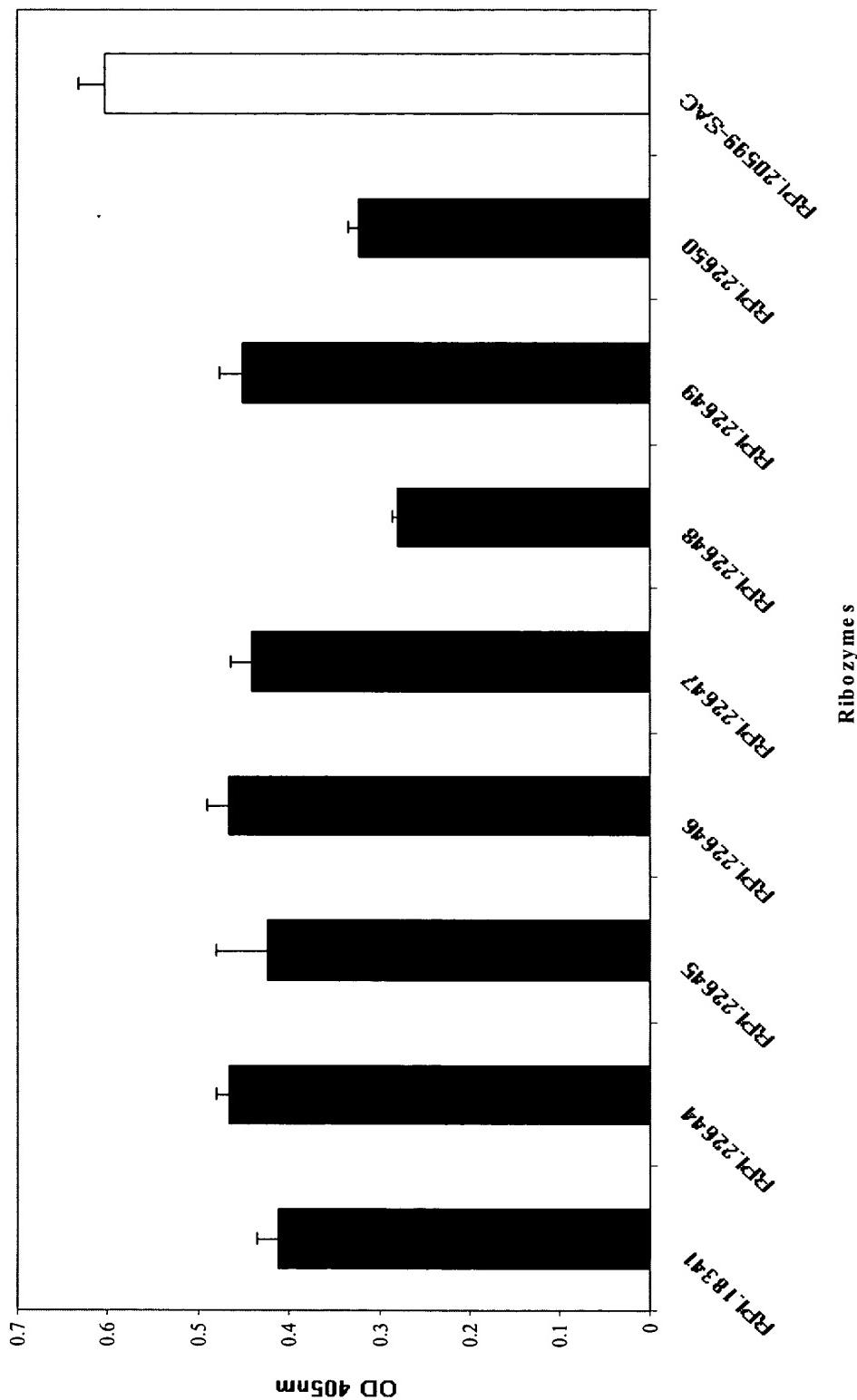


Figure 11: Hep G2 Cells Treated with RPI.18341 and Interferon: HBsAg ELISA

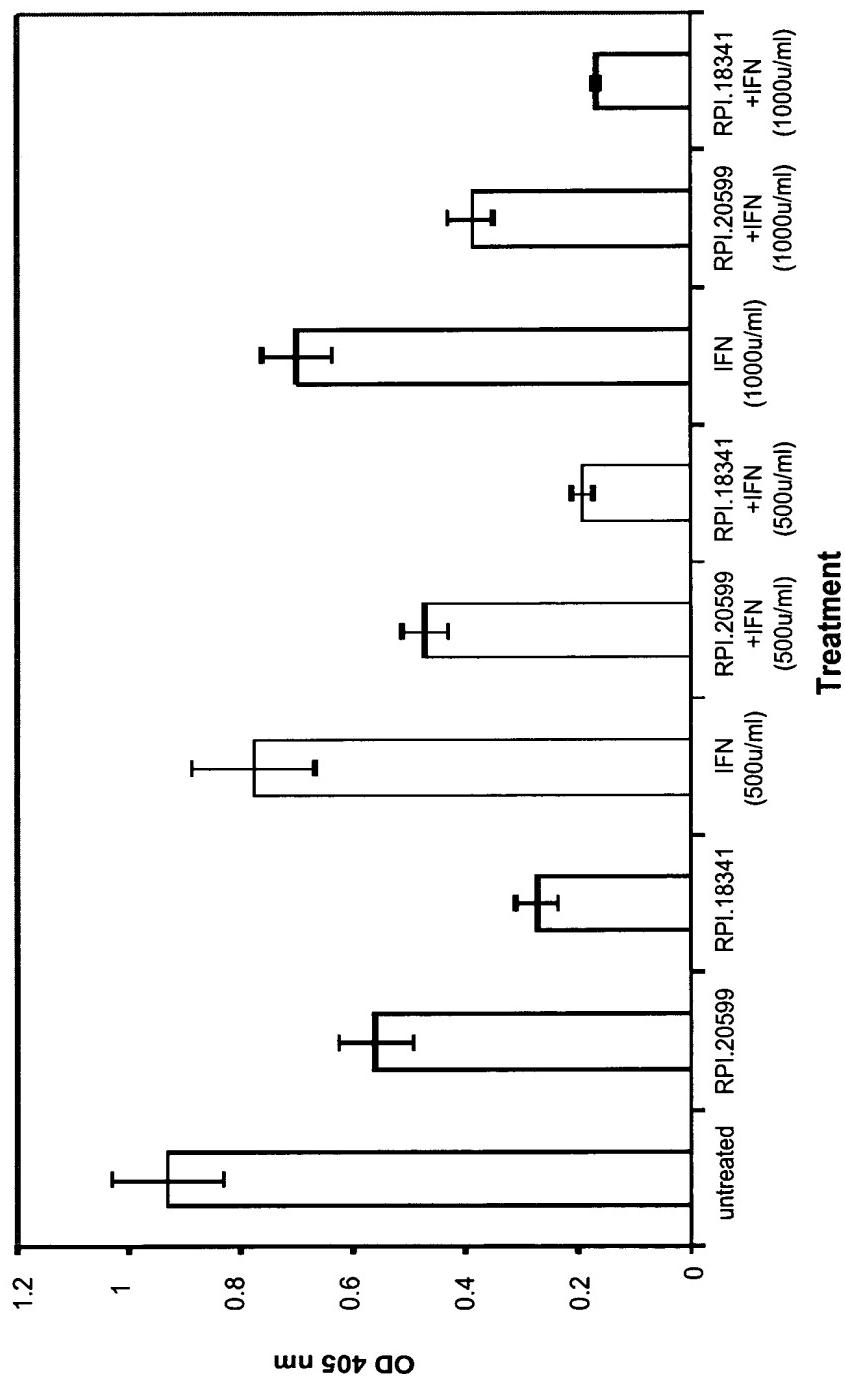


Figure 12: Hep G2 Cells Treated with 100 nM RPI.18341 and Lamivudine (3TC): HBsAg ELISA

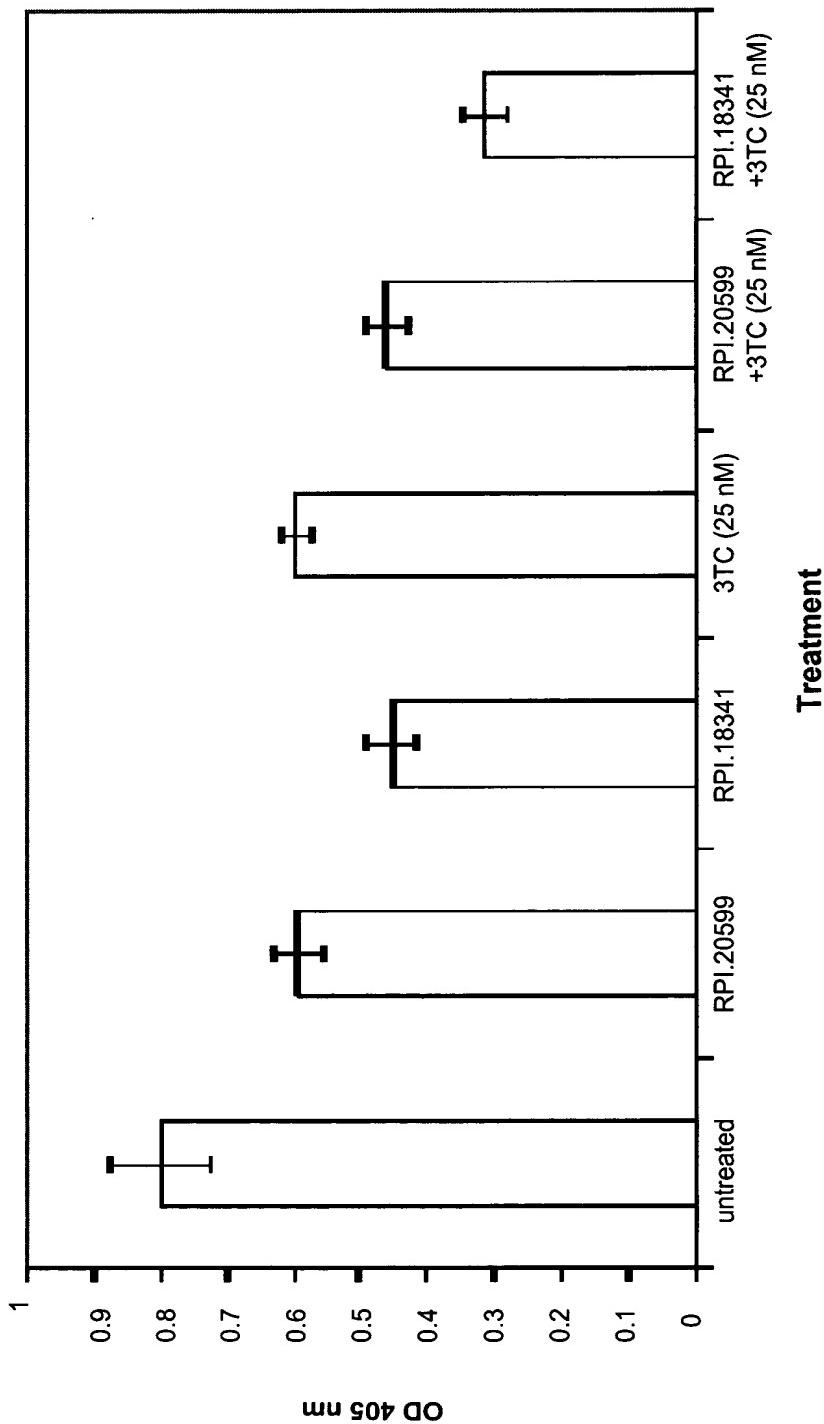


Figure 13: HBV Reverse Transcription

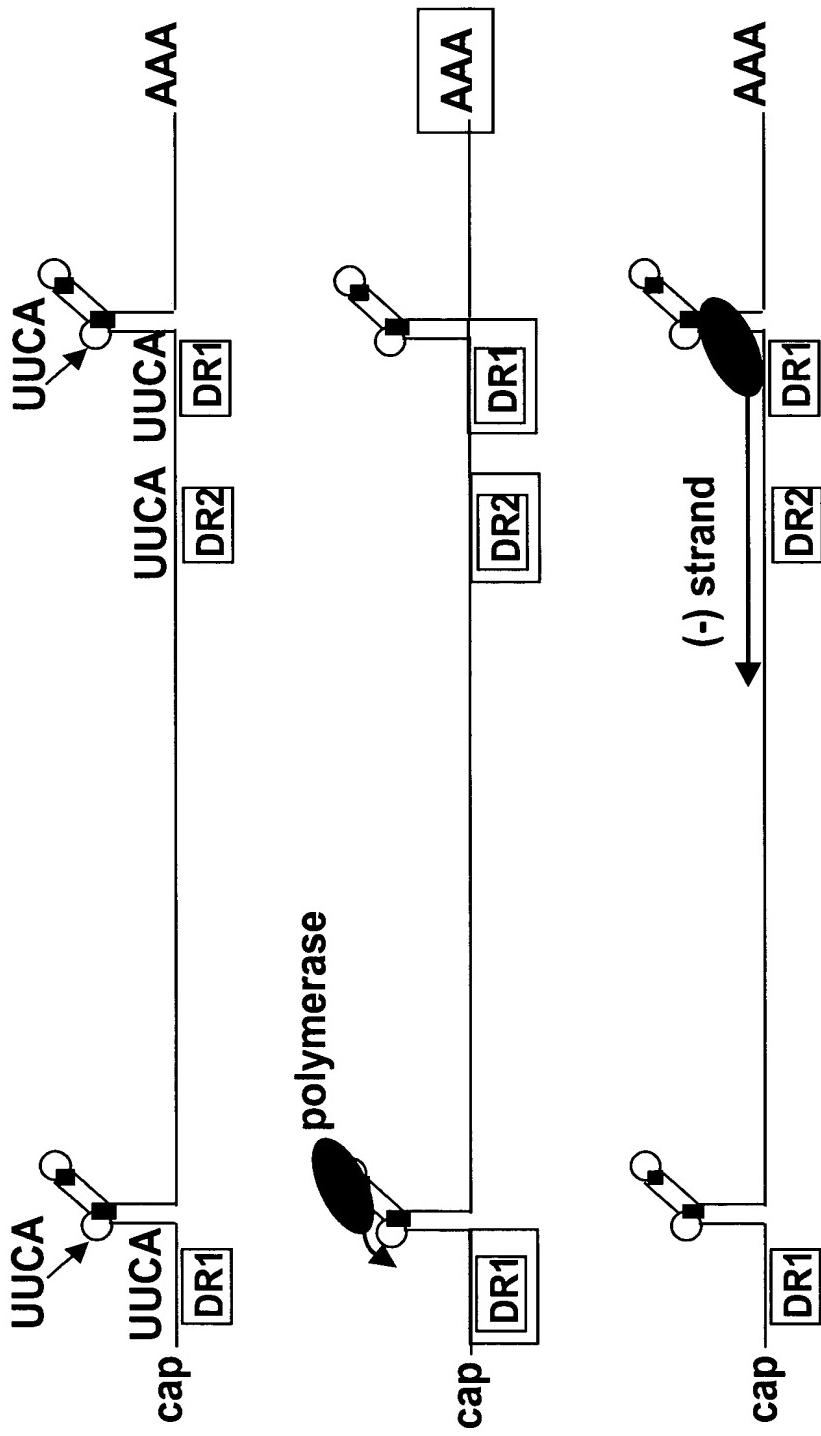


Figure 14: HBV RT Inhibition

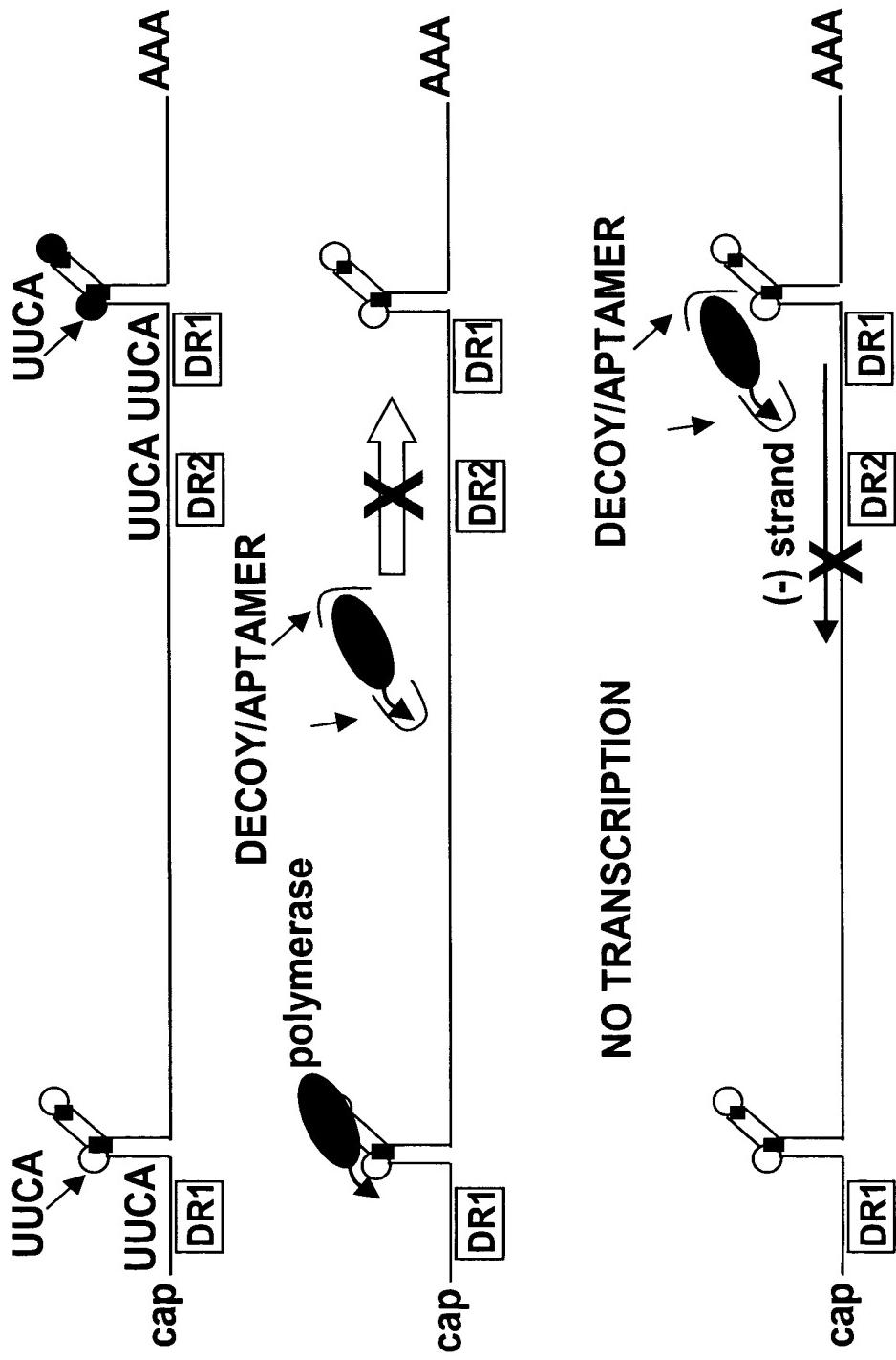


Figure 15: Screening of HBV RT Primer Competitive Inhibitors (2'-O-Allyl): HBsAg

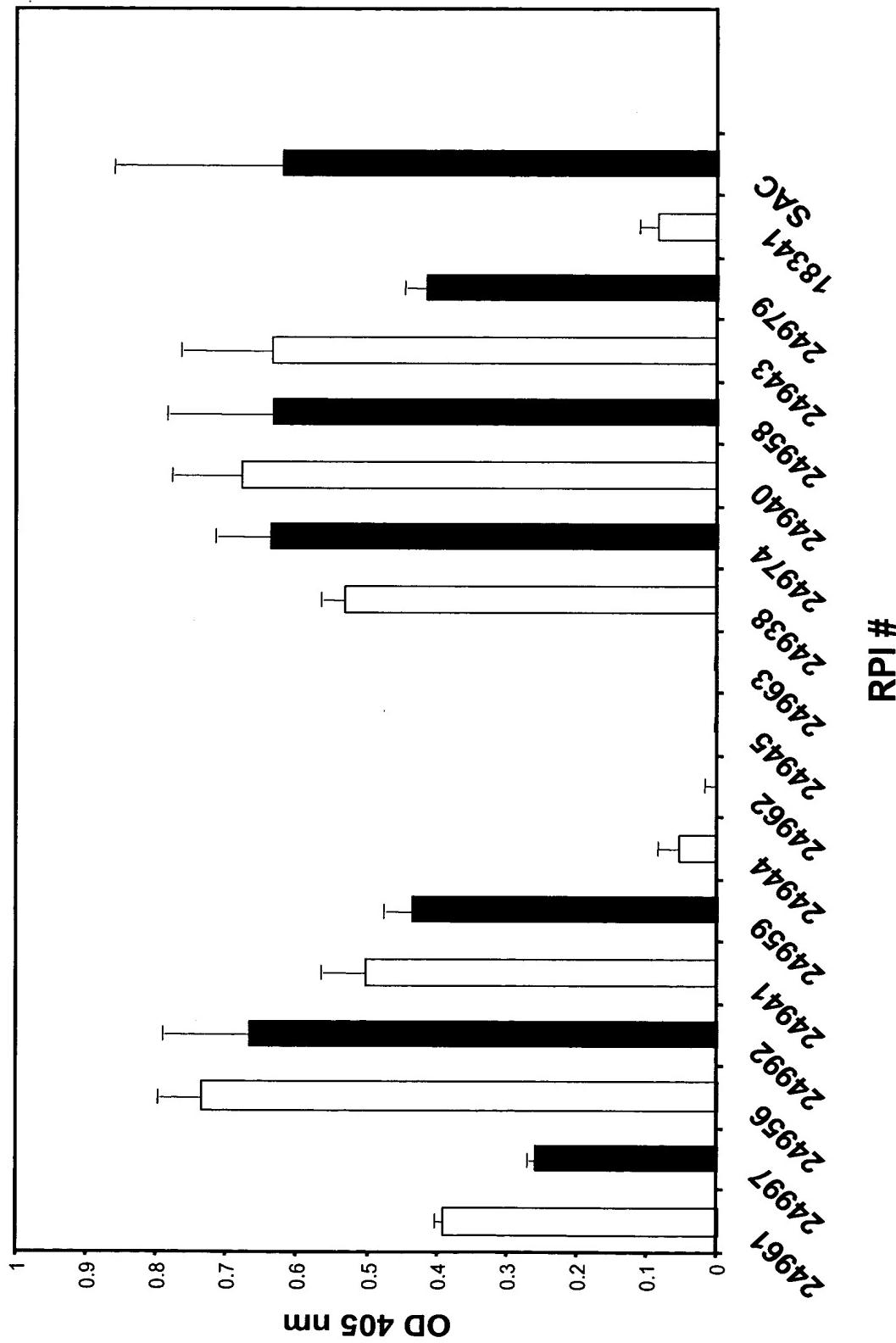


Figure 16: Screening of HBV RT Primer Competitive Inhibitors (2'-O-Methyl): HBsAg

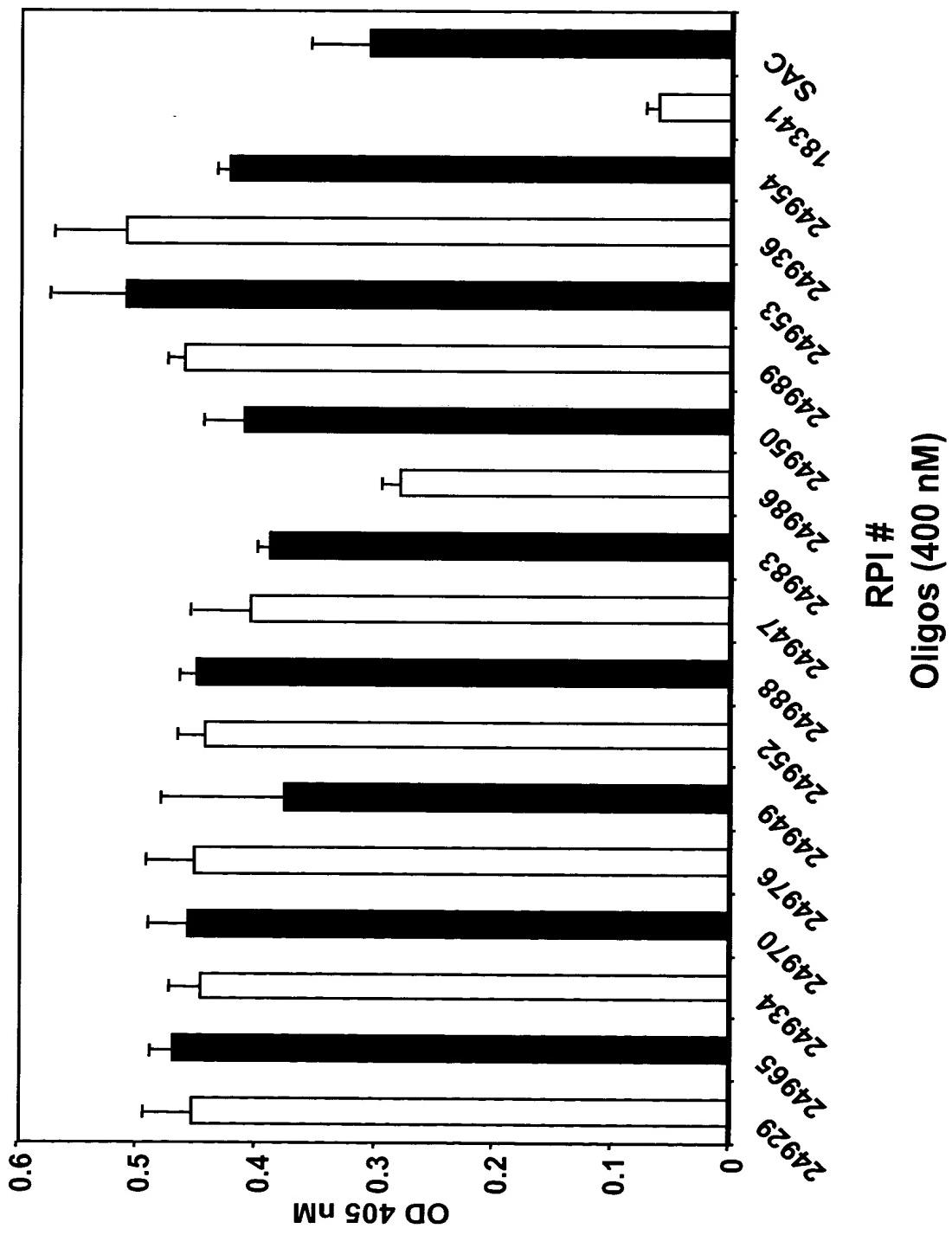


Figure 17: Dose Response with 2'-O-Methyl UUCAUUCA Oligo: HBsAg

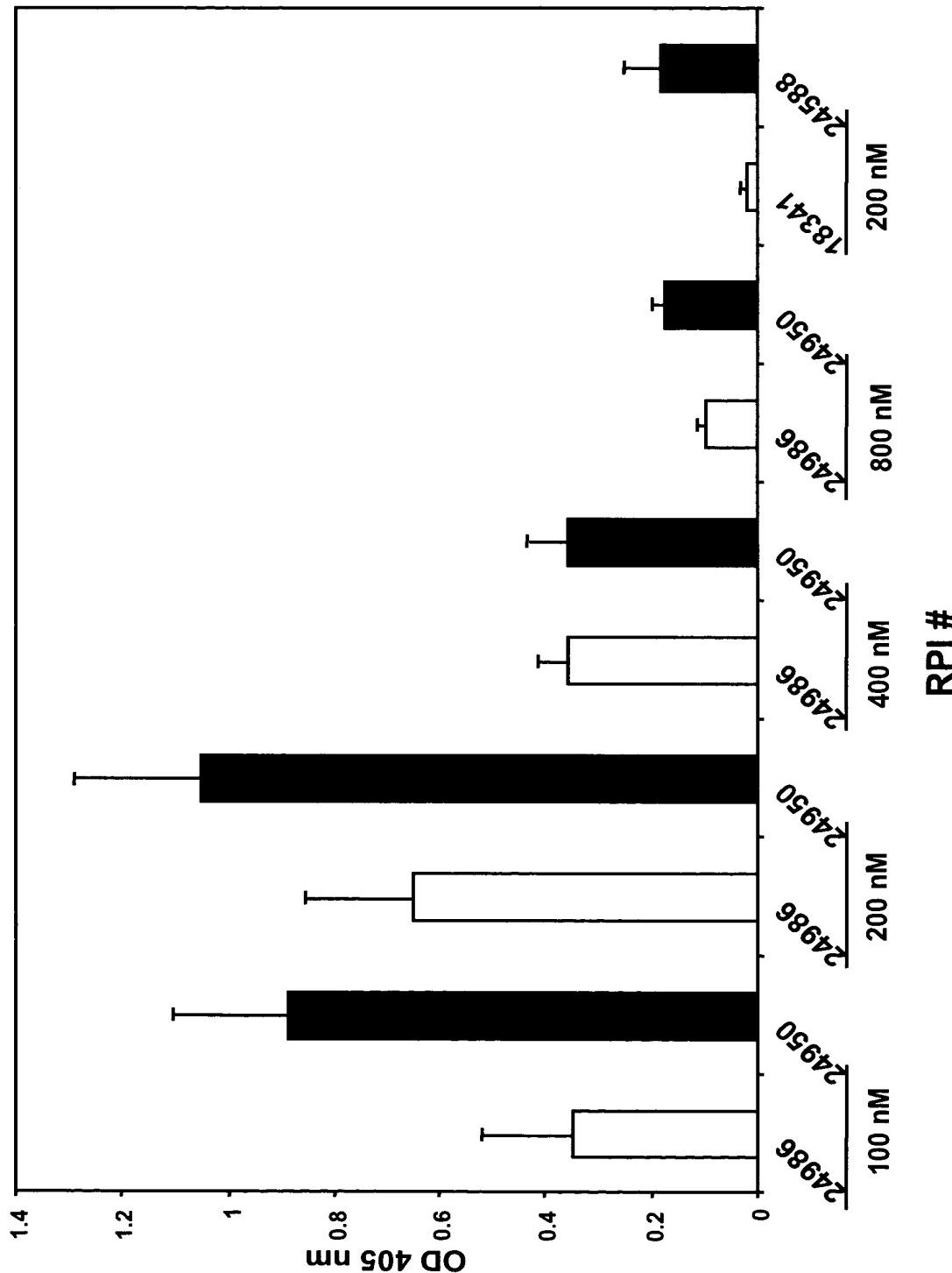


Figure 18: HBV Enhancer I Oligo Screen 200 nM:HBsAg

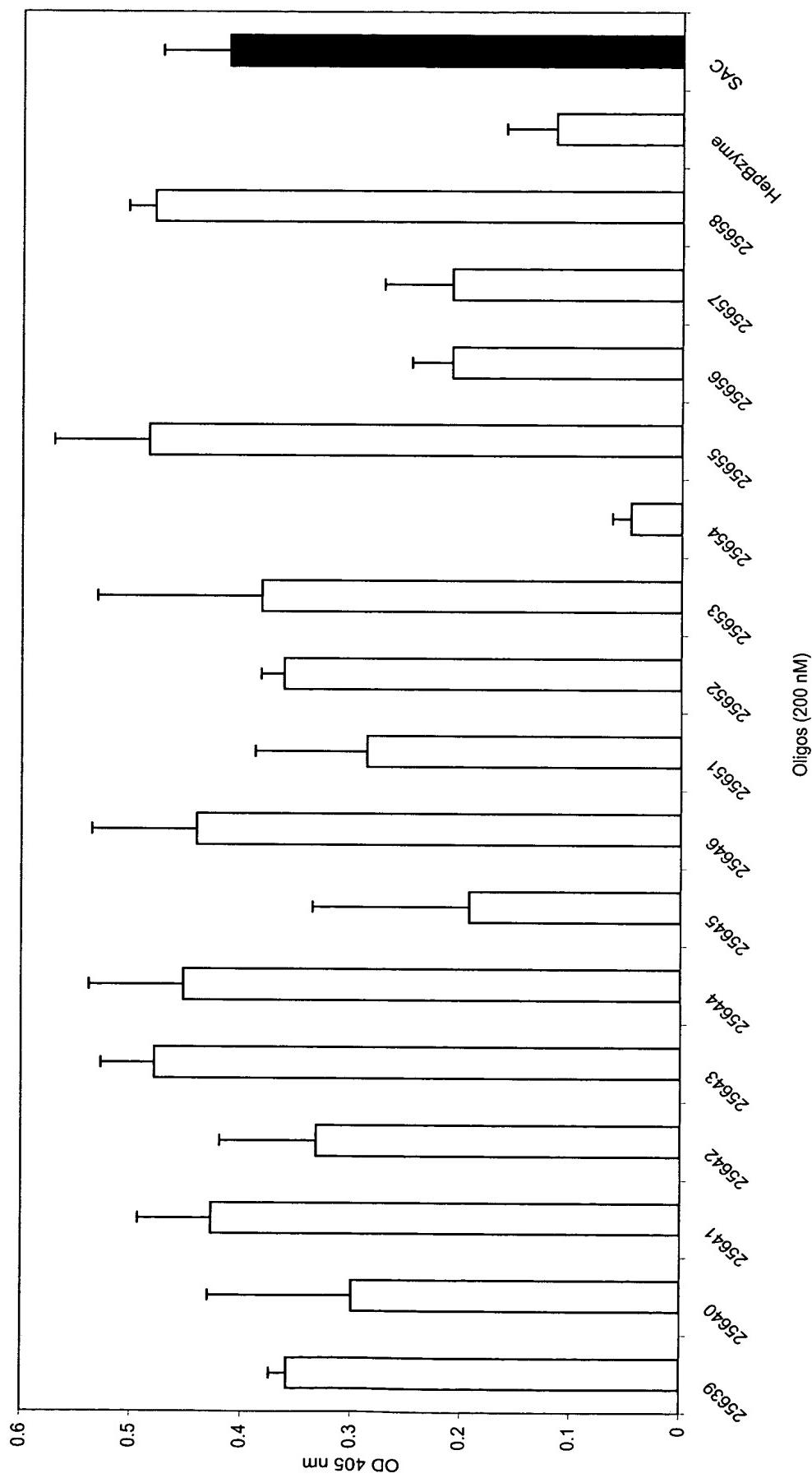


Figure 19: HBV Enhancer I Oligo Screen 400 nM: HBsAg

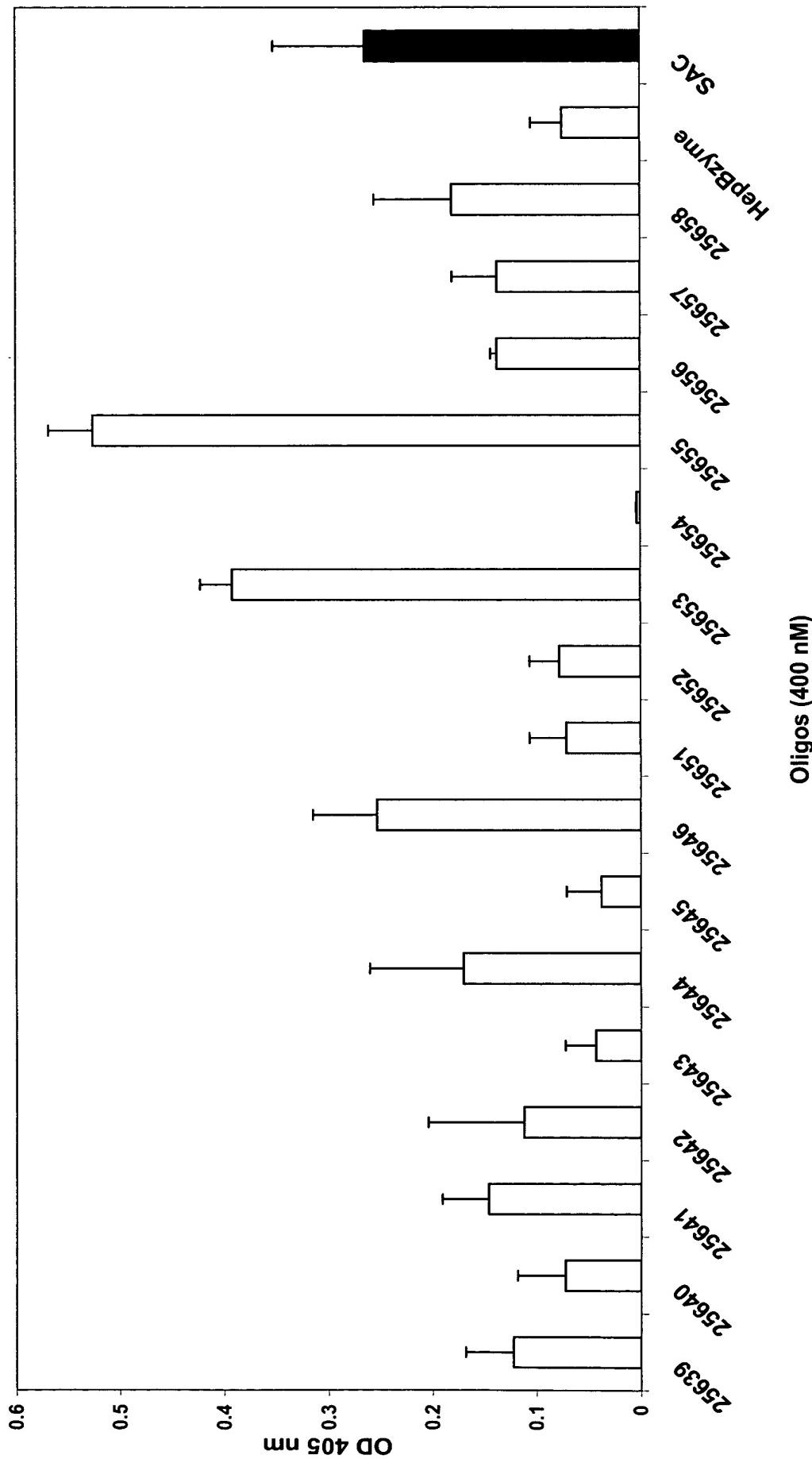


Figure 20: HBV Enhancer 1 Oligos Dose Response HBsAg

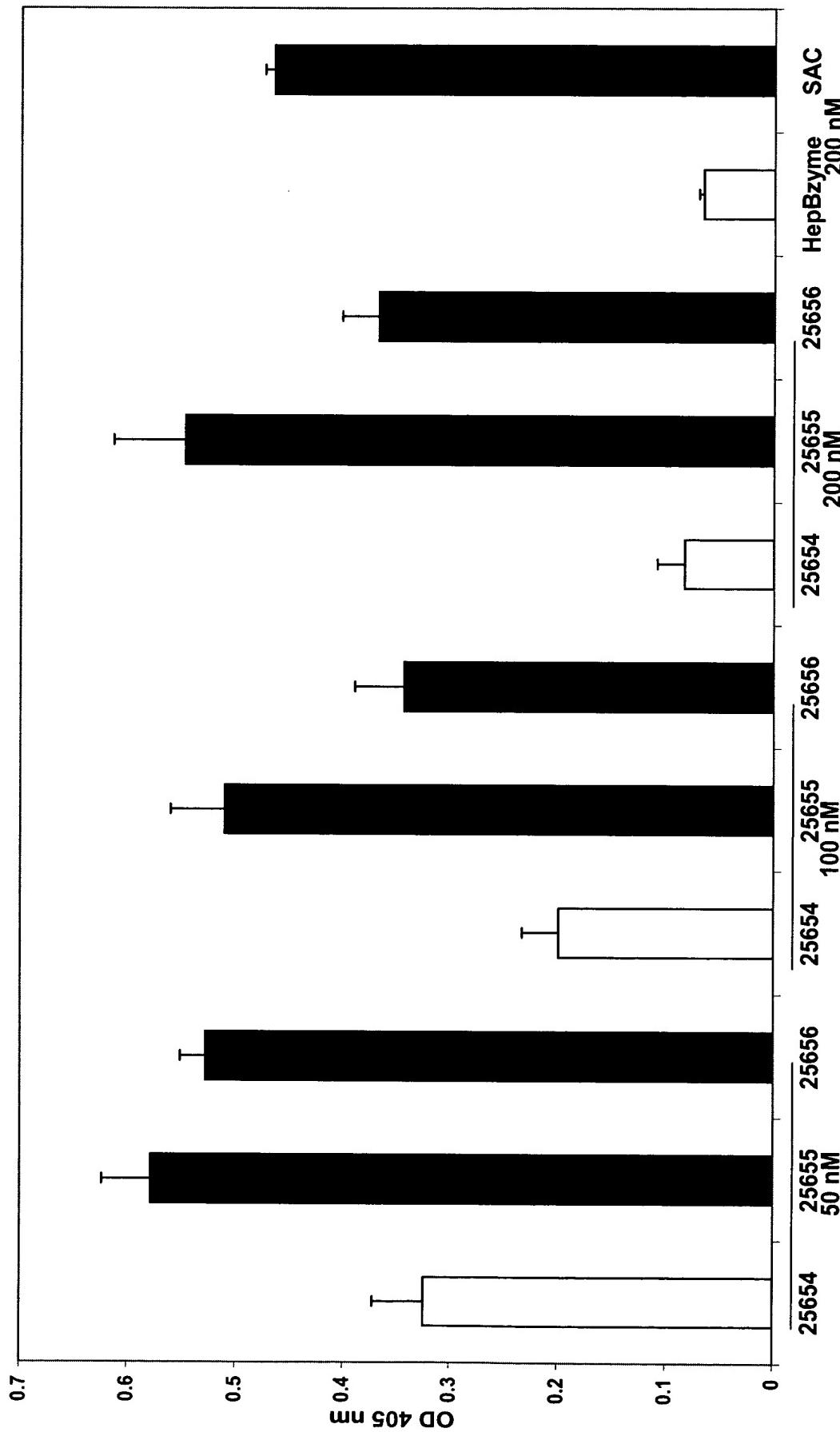


Figure 21: Growth of HepG2.2.15 tumors in Athymic Nu/Nu female mice

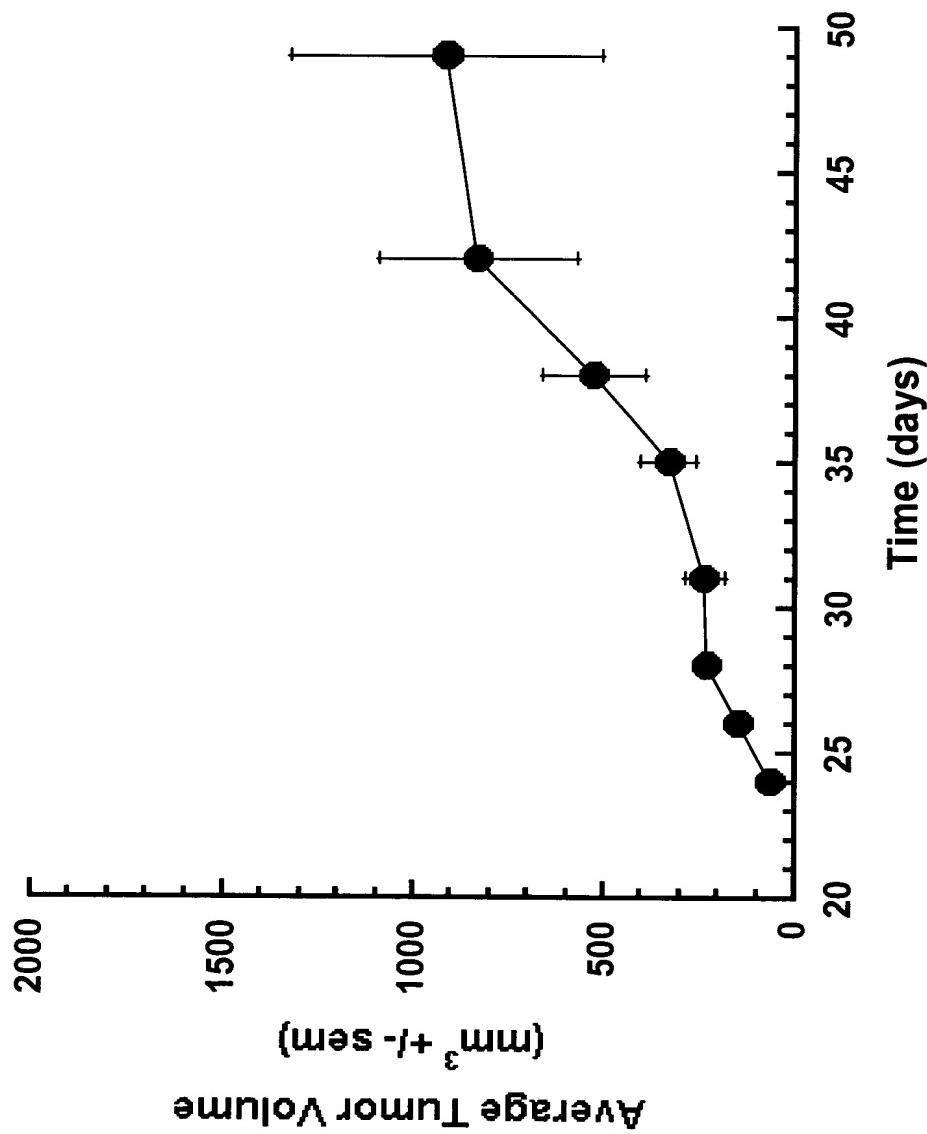


Figure 22: Growth of HepG2.2.15 tumors in Athymic Nu/Nu female mice

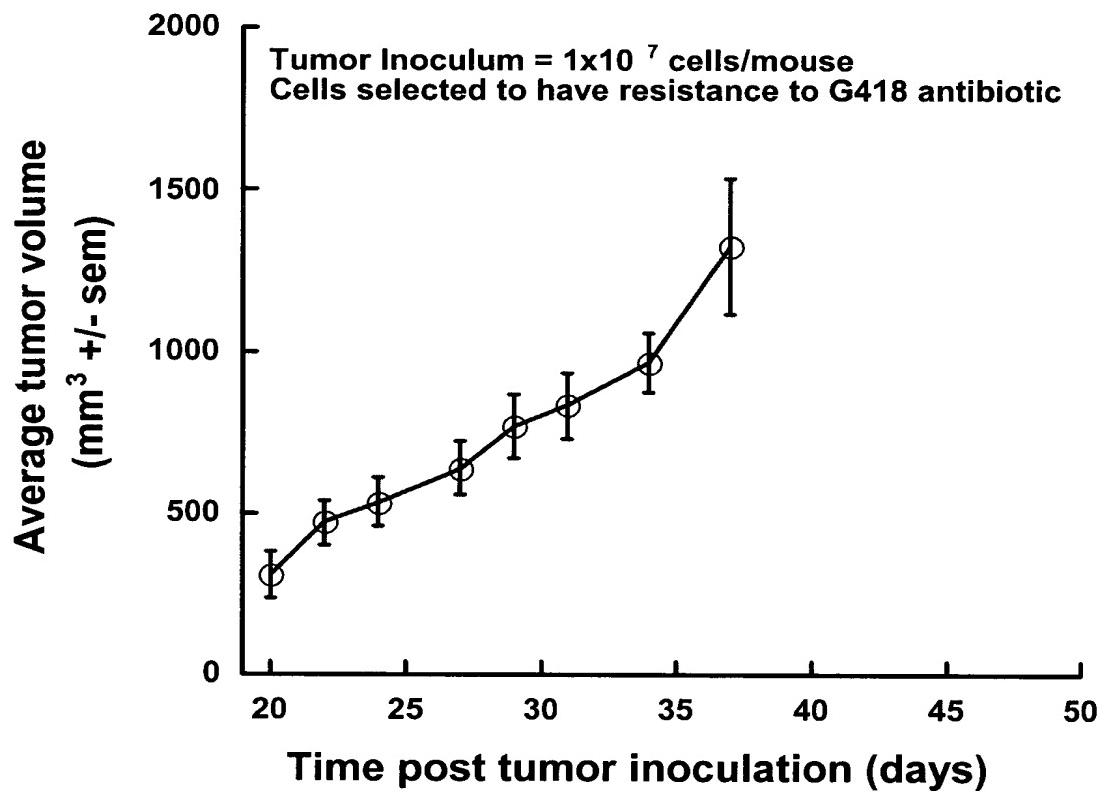


FIGURE 23 Dual Reporter System for Cytoplasmic HCV Target

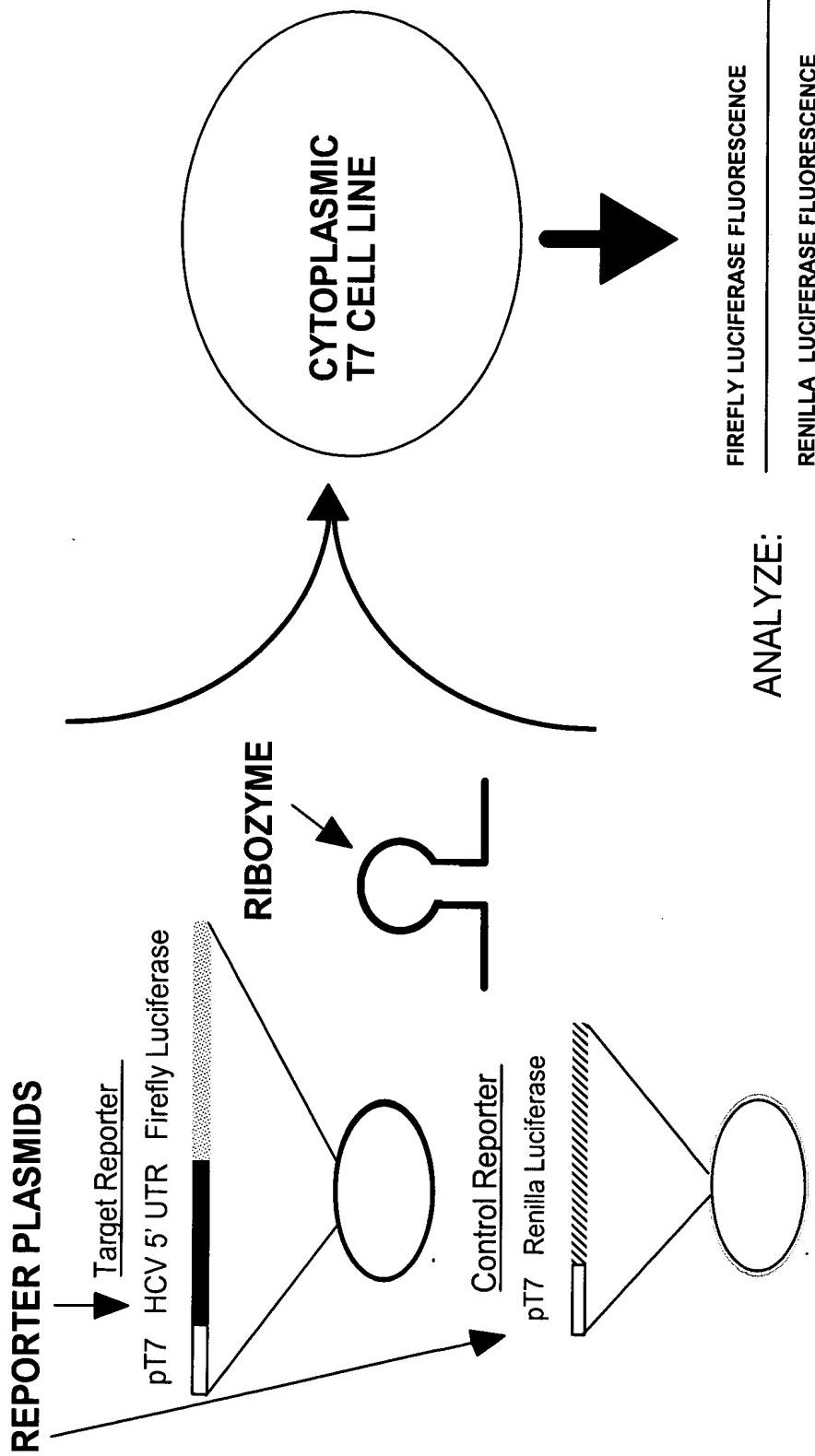


Figure 24: Secondary structure of the HCV 5'UTR

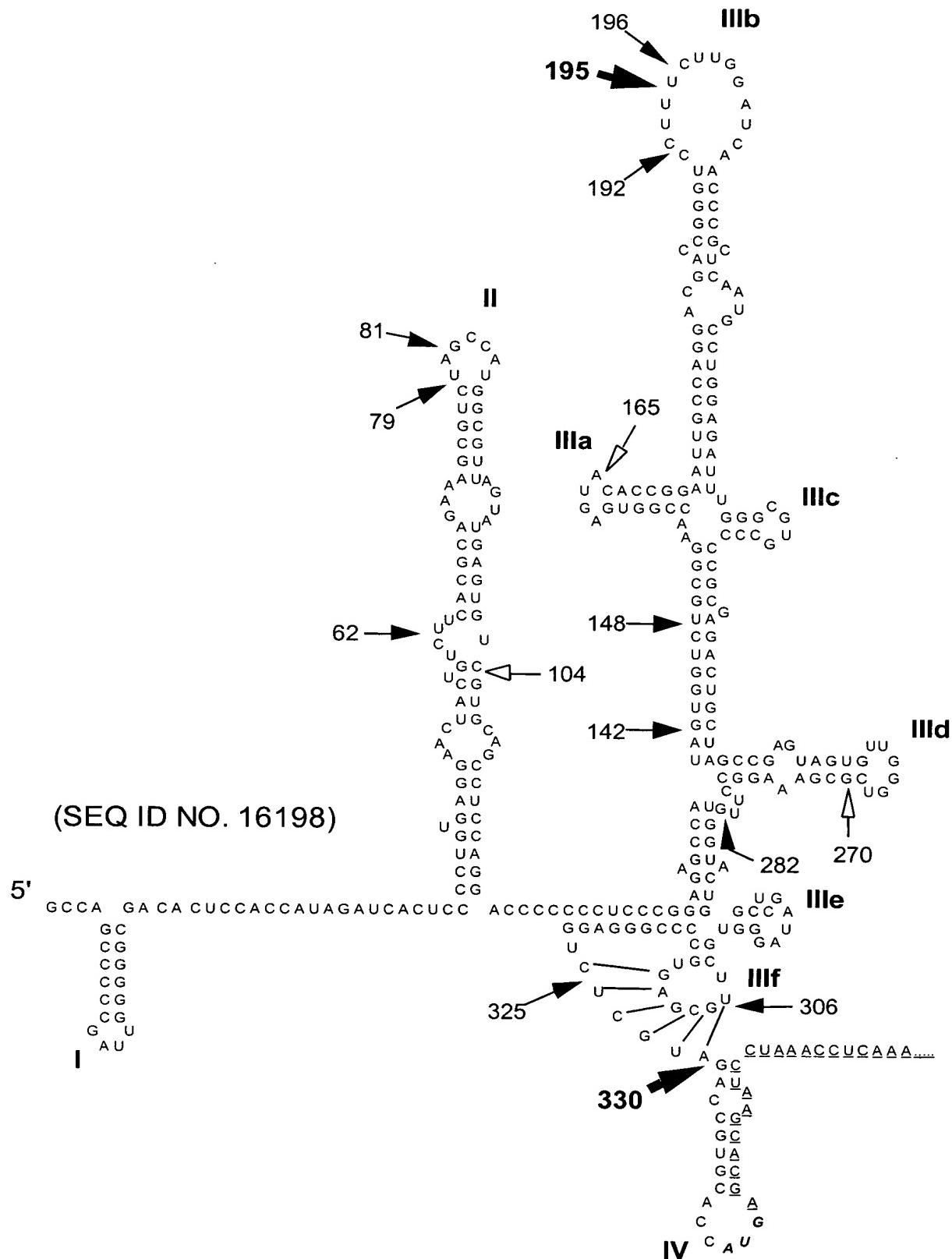


Figure 25: A Chemically Stabilized Enzymatic Nucleic Acid Molecule

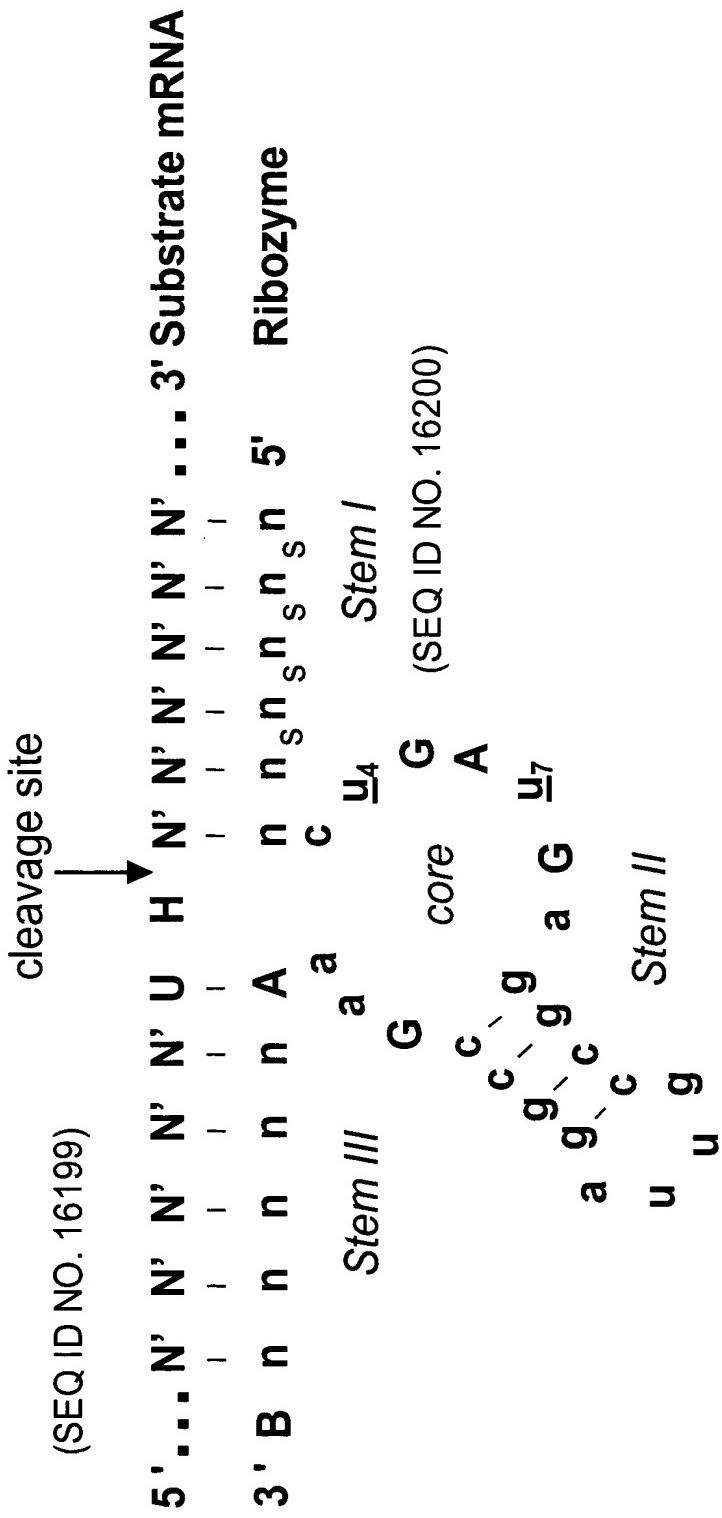


Figure 26A: Enzymatic nucleic acid mediated inhibition of HCV-luciferase expression

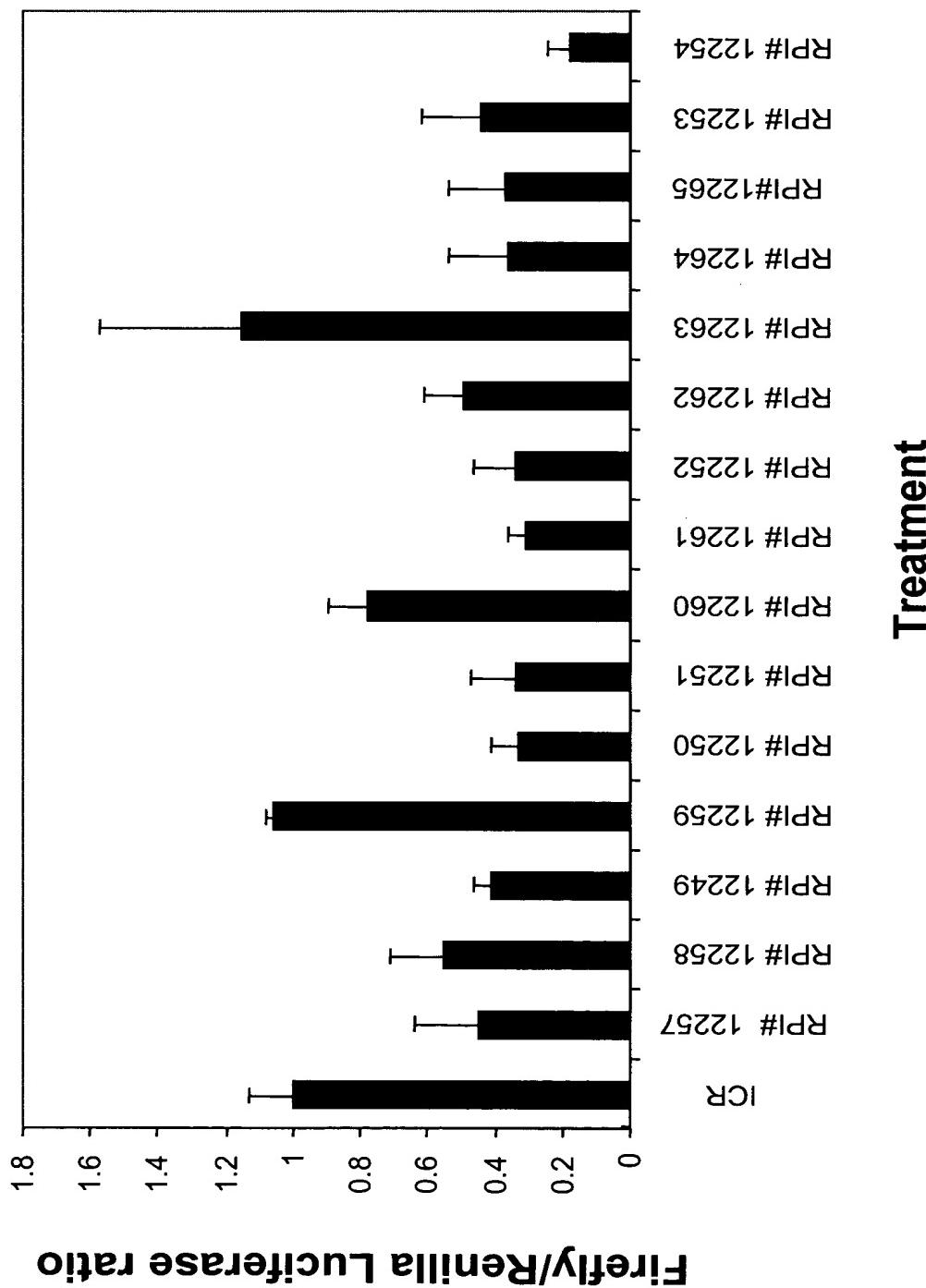
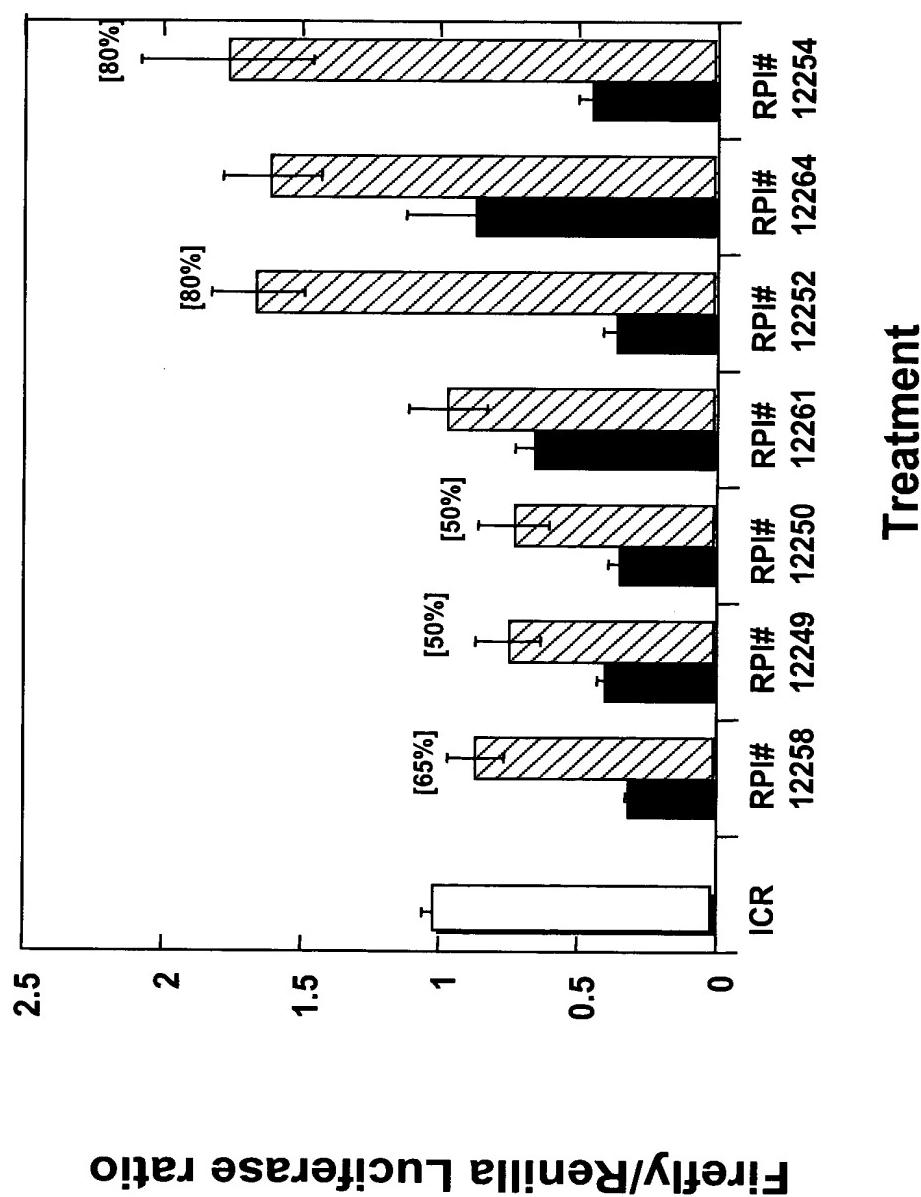
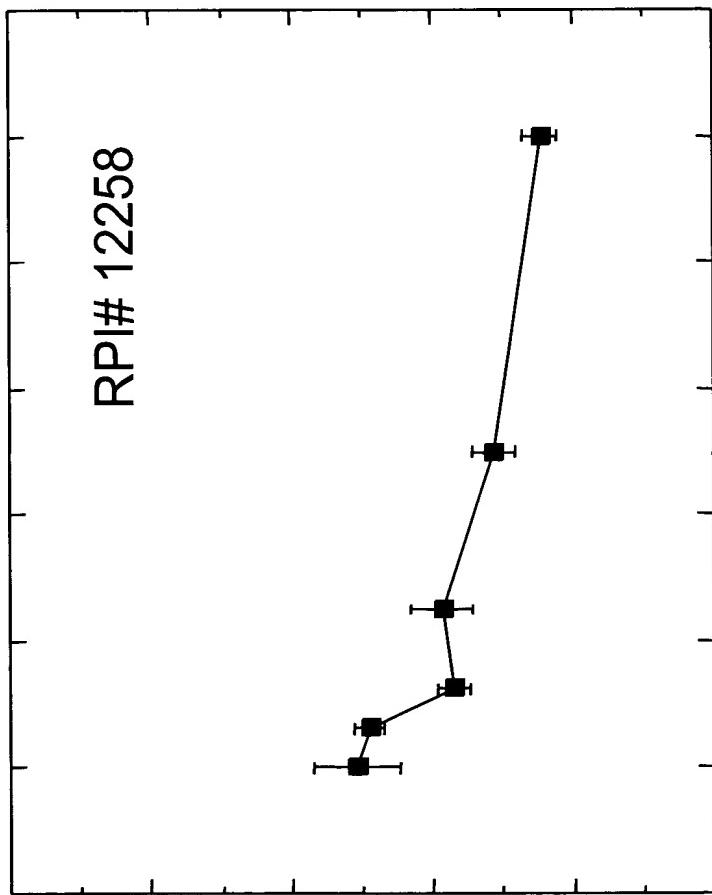


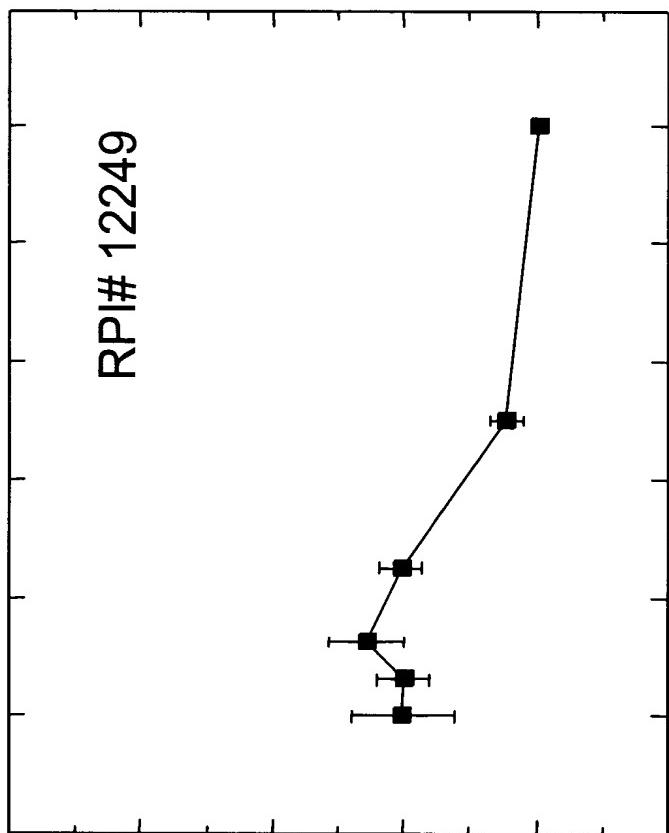
Figure 26B: Enzymatic nucleic acid mediated inhibition of HCV-luciferase expression



**Figure 27A: Dose-dependent enzymatic nucleic acid inhibition
of HCV/luciferase expression**



**Figure 27B: Dose-dependent enzymatic nucleic acid inhibition
of HCV/luciferase expression**



**Figure 27C: Dose-dependent enzymatic nucleic acid inhibition
of HCV/luciferase expression**

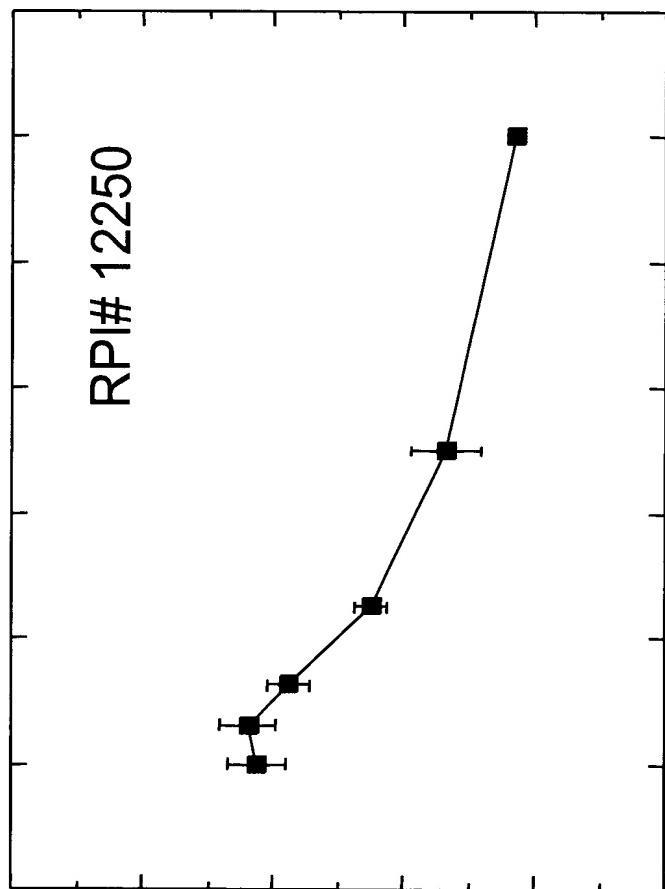
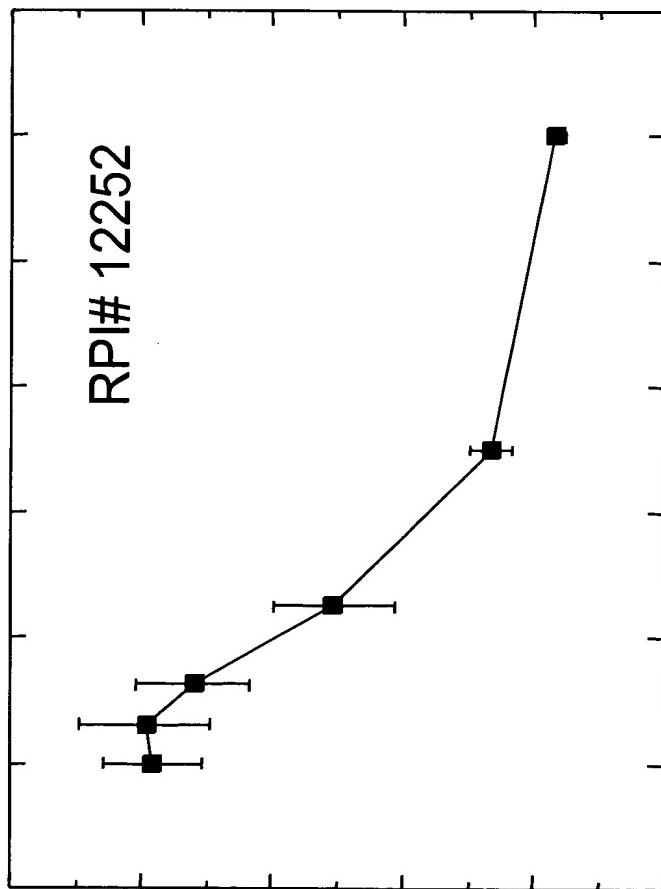


Figure 27D: Dose-dependent enzymatic nucleic acid inhibition of HCV/luciferase expression



*Figure 27E: Dose-dependent enzymatic nucleic acid inhibition
of HCV/luciferase expression*

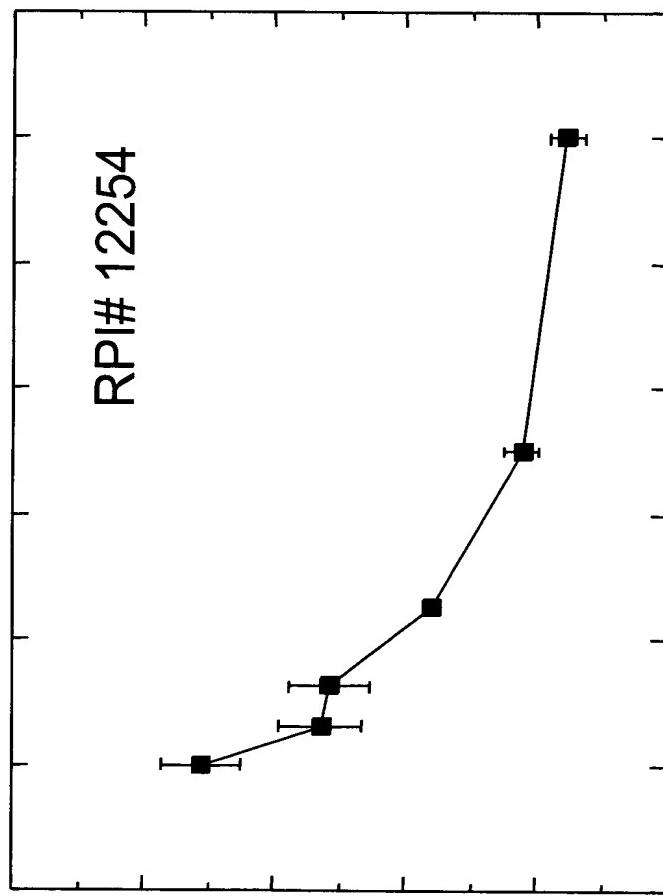


Figure 28A: Enzymatic nucleic acid reduction of HCV/luciferase RNA and inhibition of HCV-luciferase expression

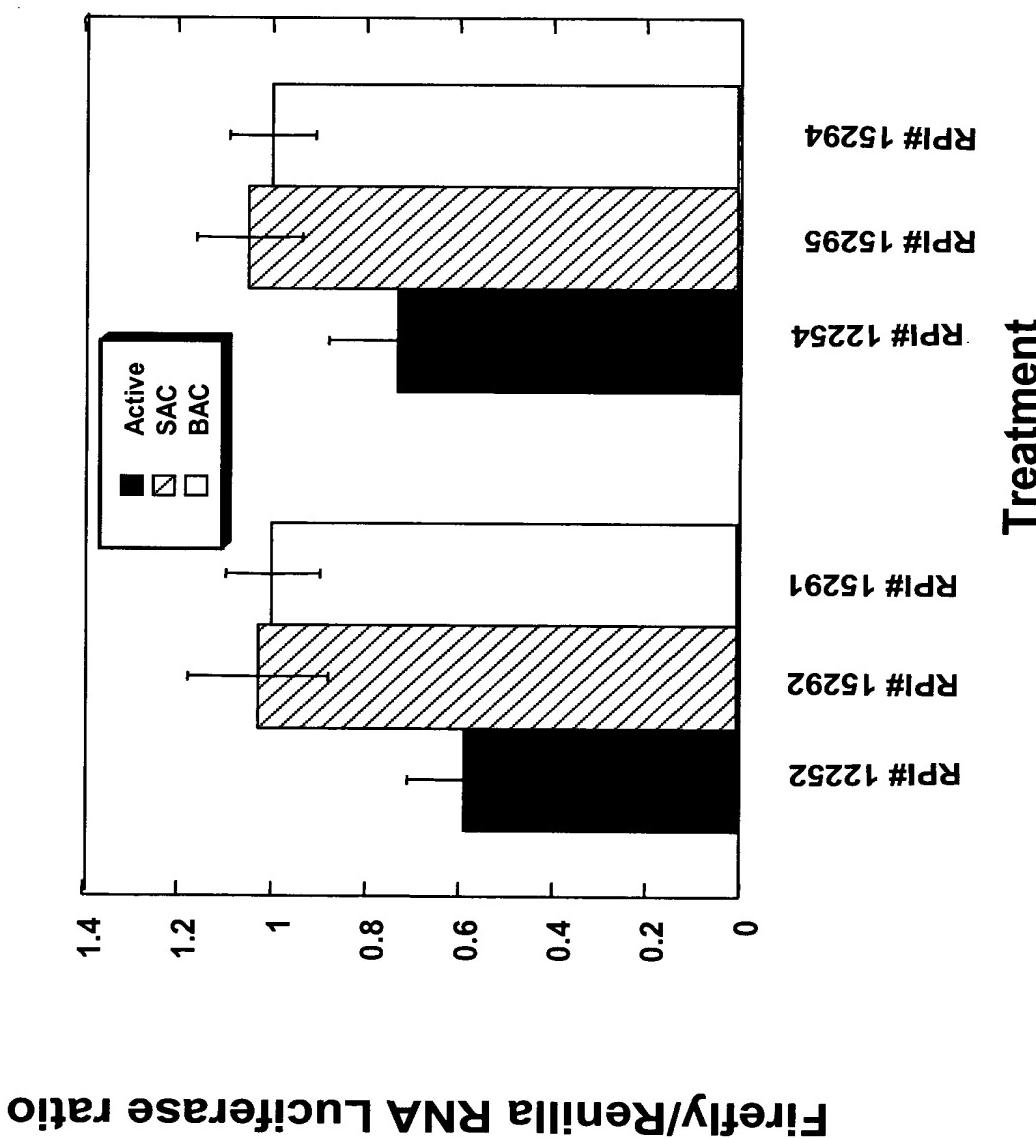


Figure 28B: Enzymatic nucleic acid reduction of HCV/luciferase RNA and inhibition of HCV-luciferase expression

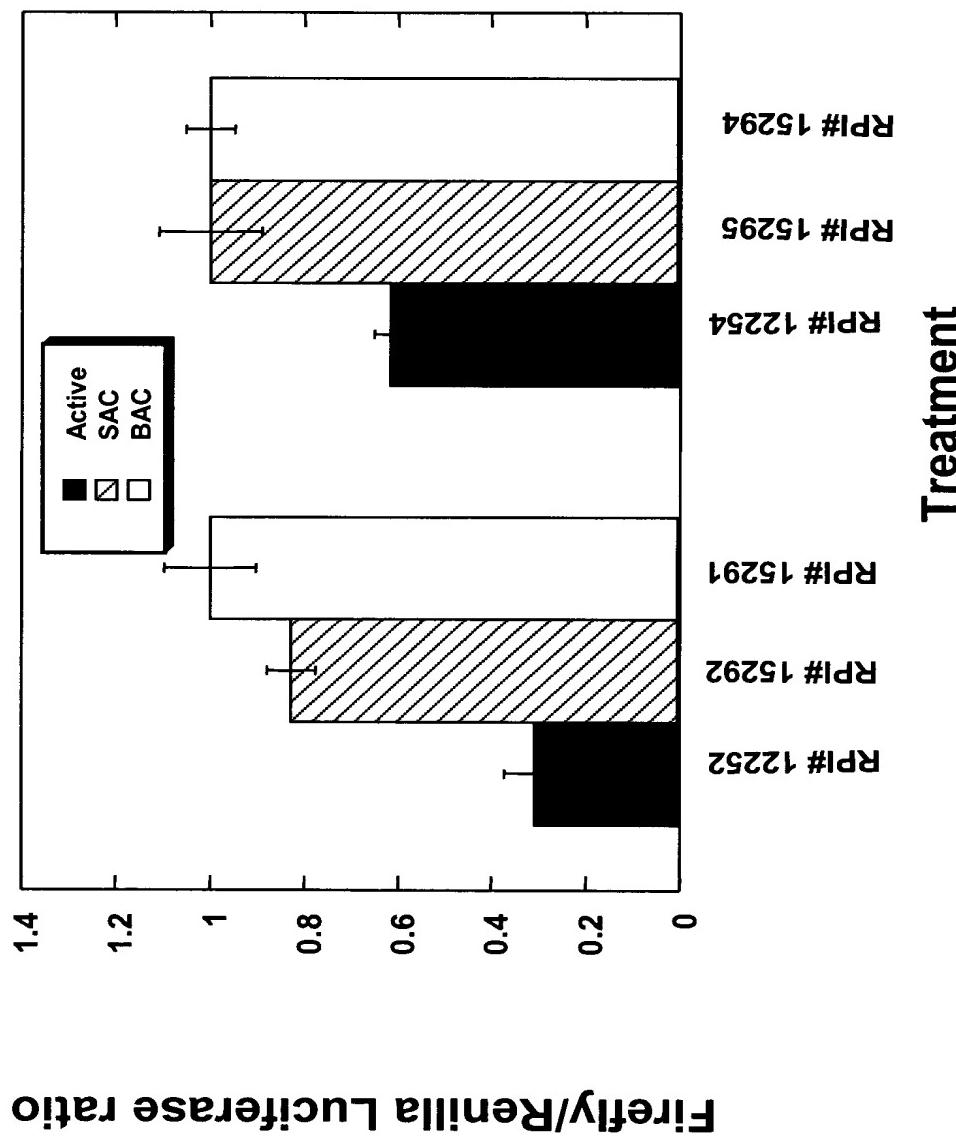


Figure 29A: Interferon Dose response with Enzymatic Nucleic Acid

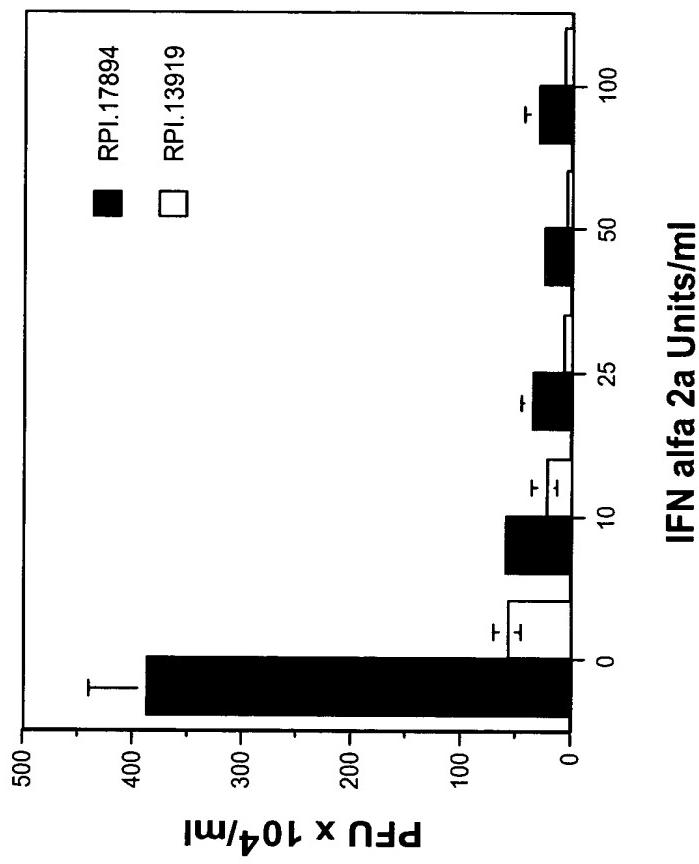


Figure 29B: Interferon Dose response with Enzymatic Nucleic Acid

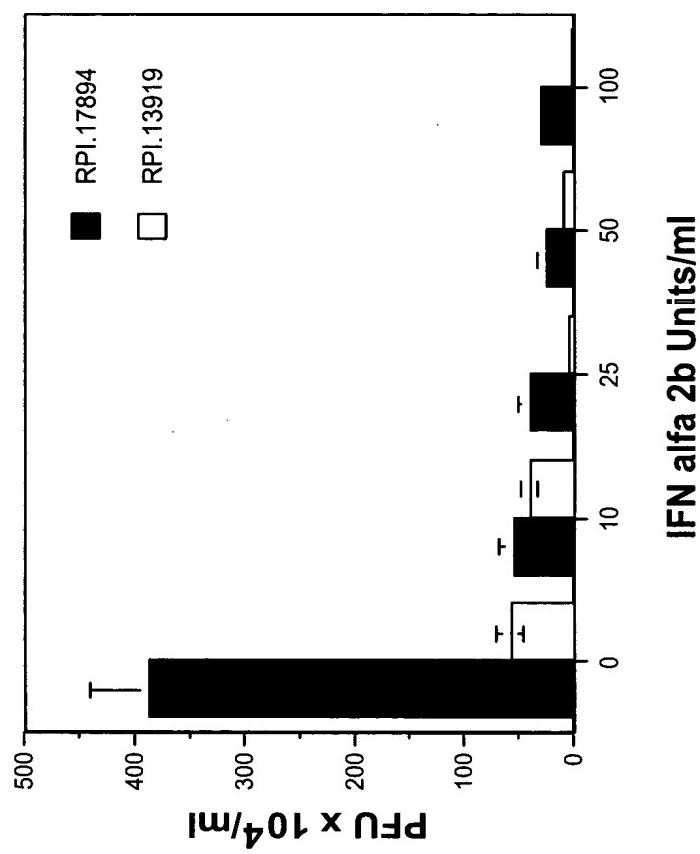


Figure 30: Site 195 anti-HCV enzymatic nucleic acid dose response in combination with interferon pretreatment

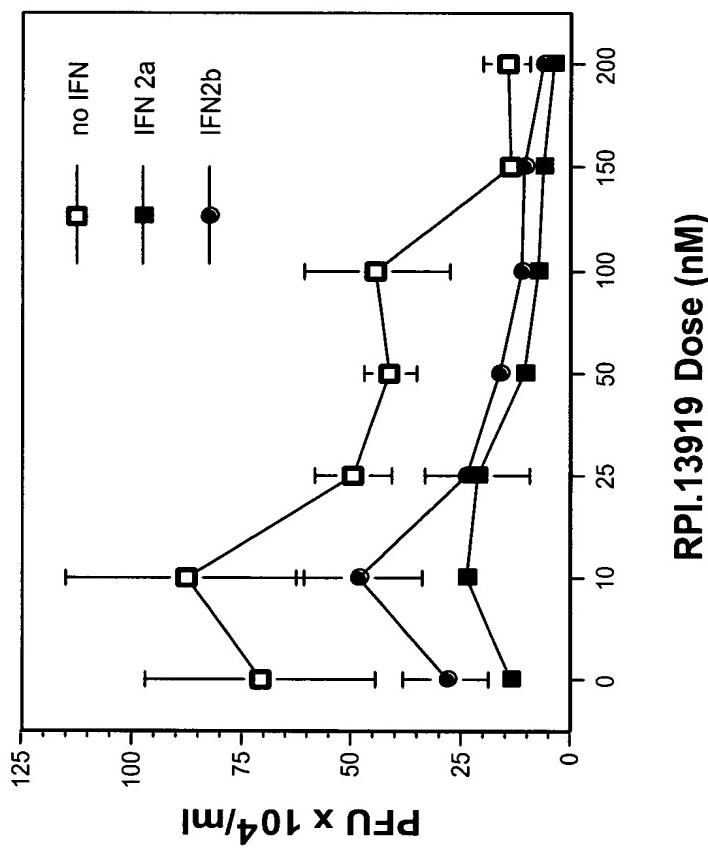


Figure 31A: CIFN dose response with site 195 anti-HCV enzymatic nucleic acid treatment

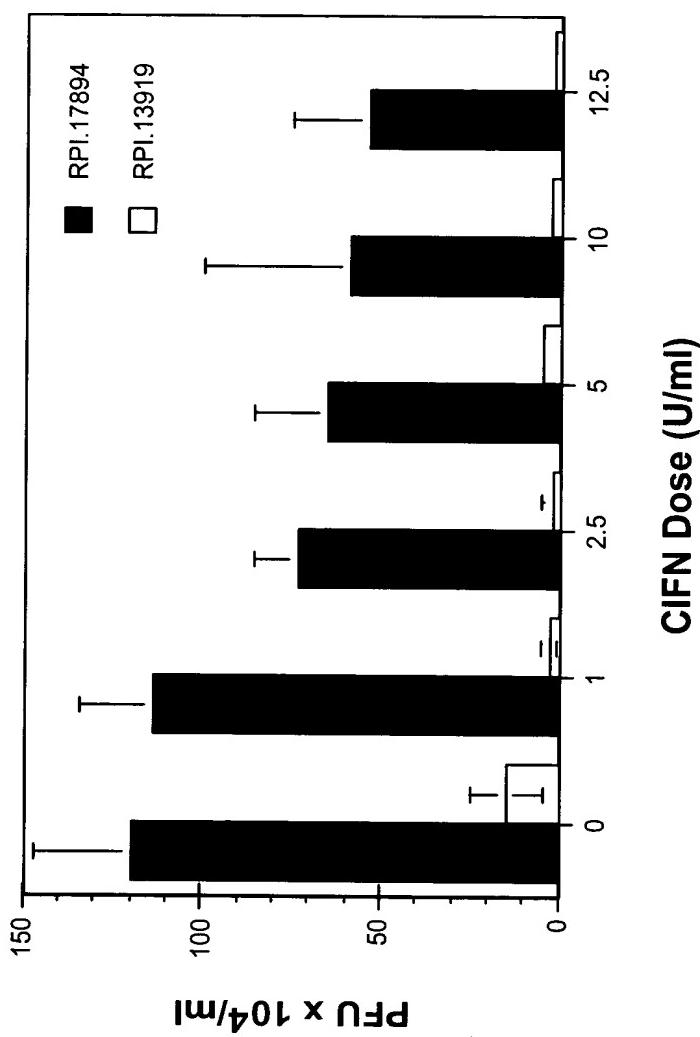


Figure 31B: Site 195 anti-HCV enzymatic nucleic acid dose response with CIFN pretreatment

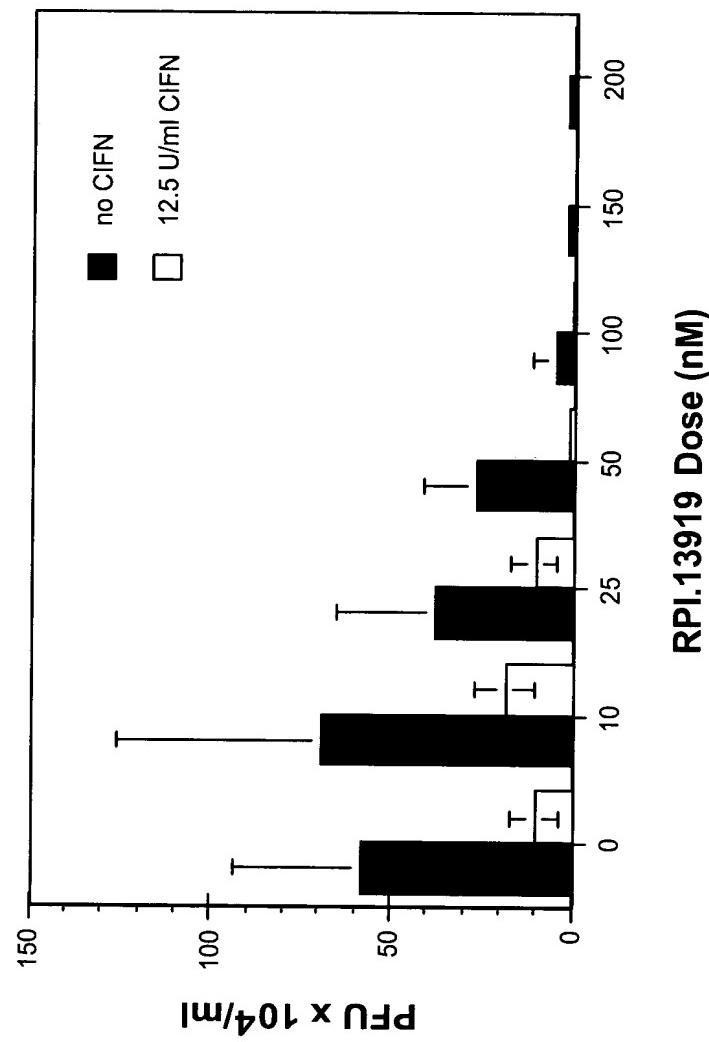


Figure 32: Enhanced antiviral effect of an anti-HCV enzymatic nucleic acid targeting site 195 used in combination with consensus interferon (CIFN)

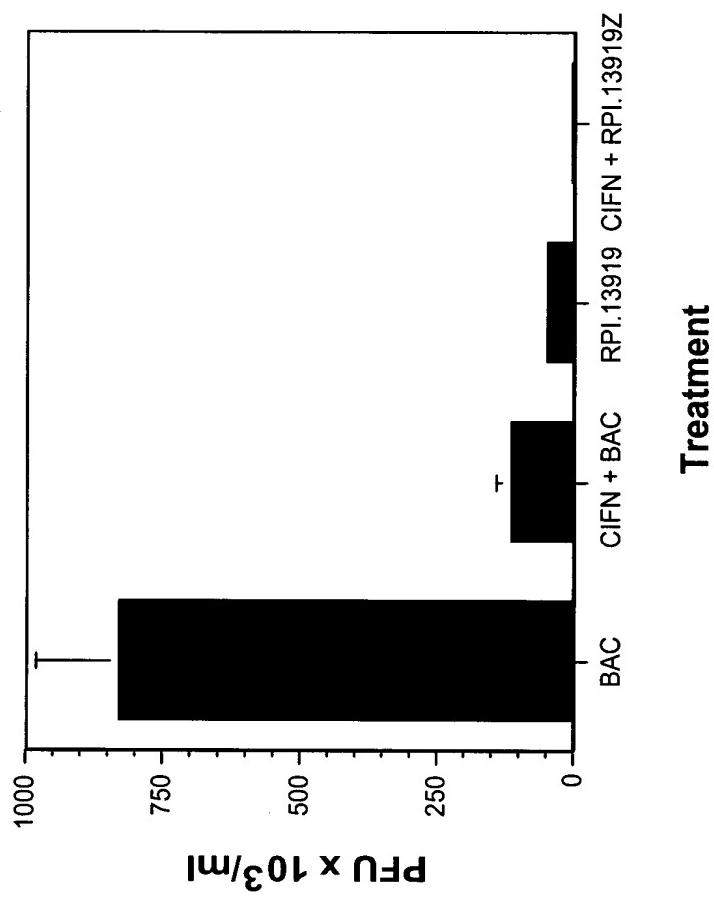


Figure 33: Inhibition of HCV-PV Replication by Zinzyme Treatment

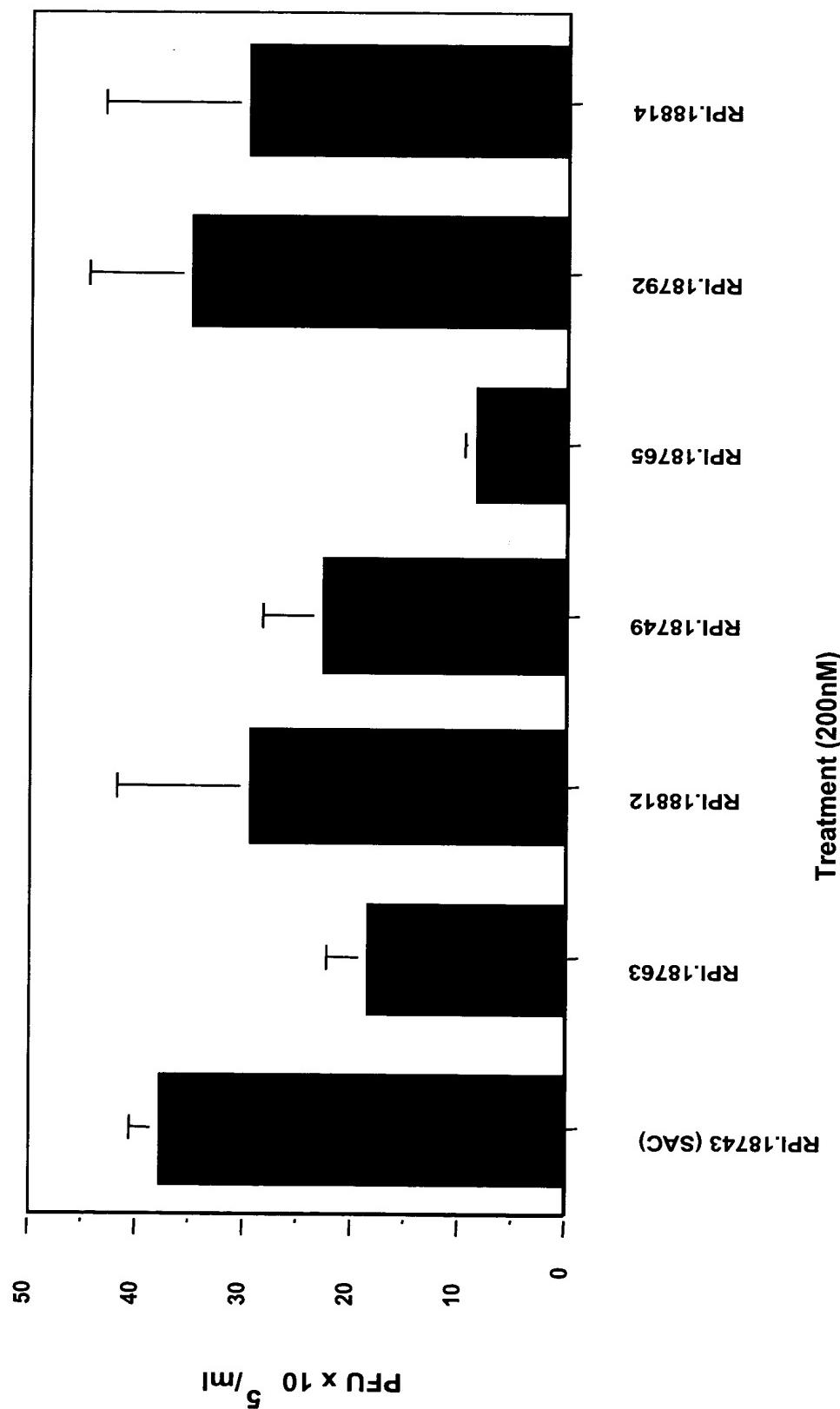


Figure 34: Inhibition of HCV-Poliovirus Replication by Antisense

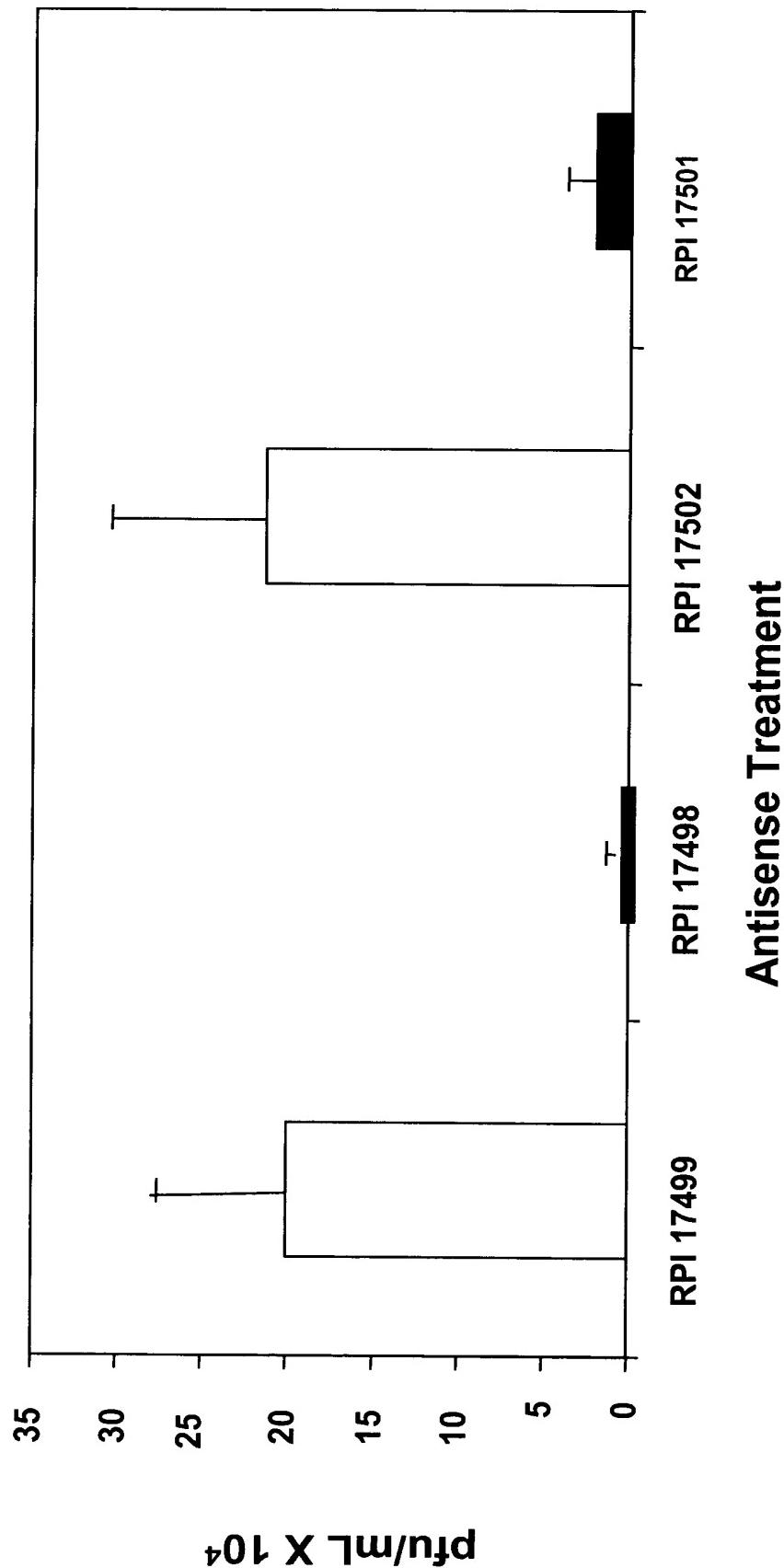


Figure 35: Modified 2'-5'A Compound

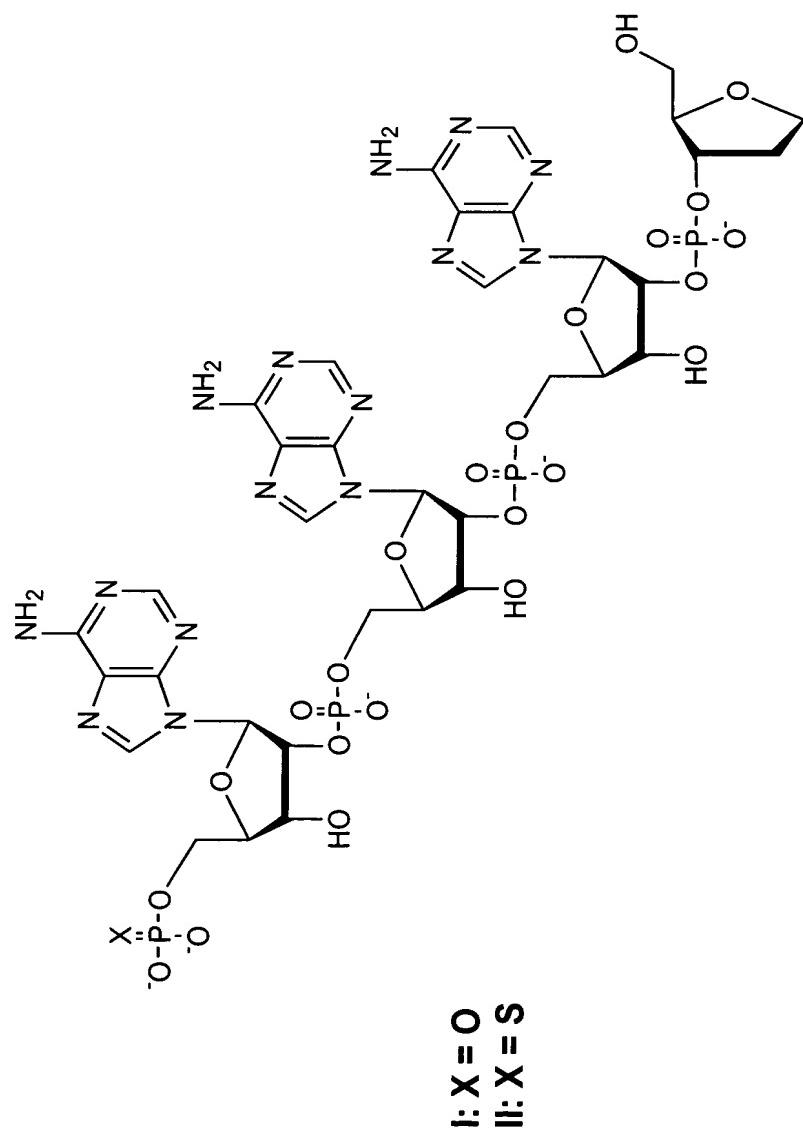


Figure 36A: Ribozyme activity and enhanced antiviral effect

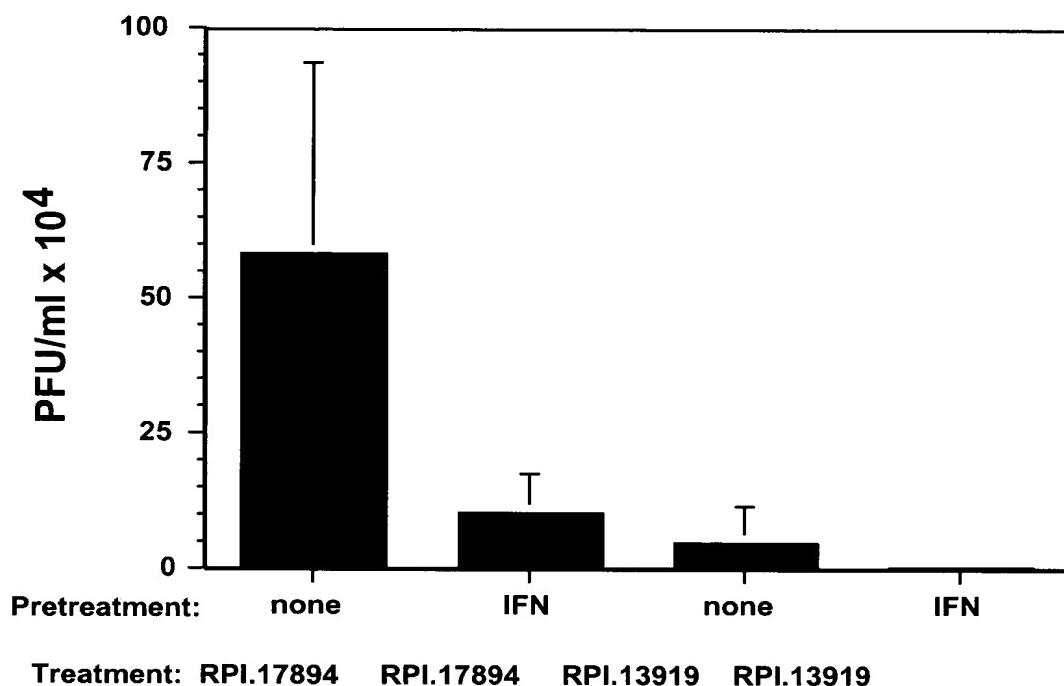


Figure 36B: Ribozyme activity and enhanced antiviral effect

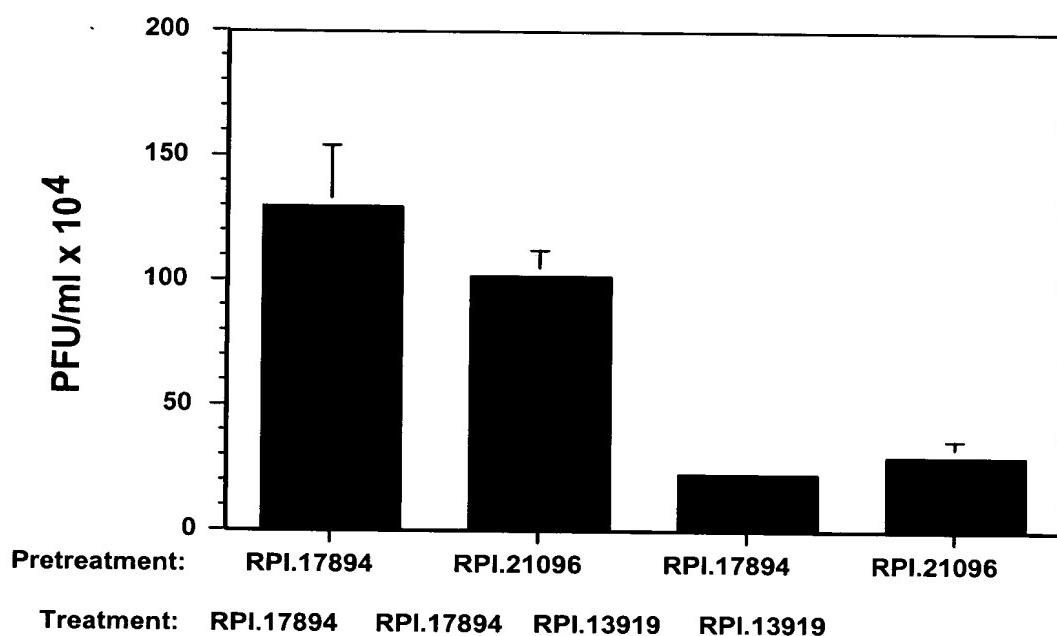
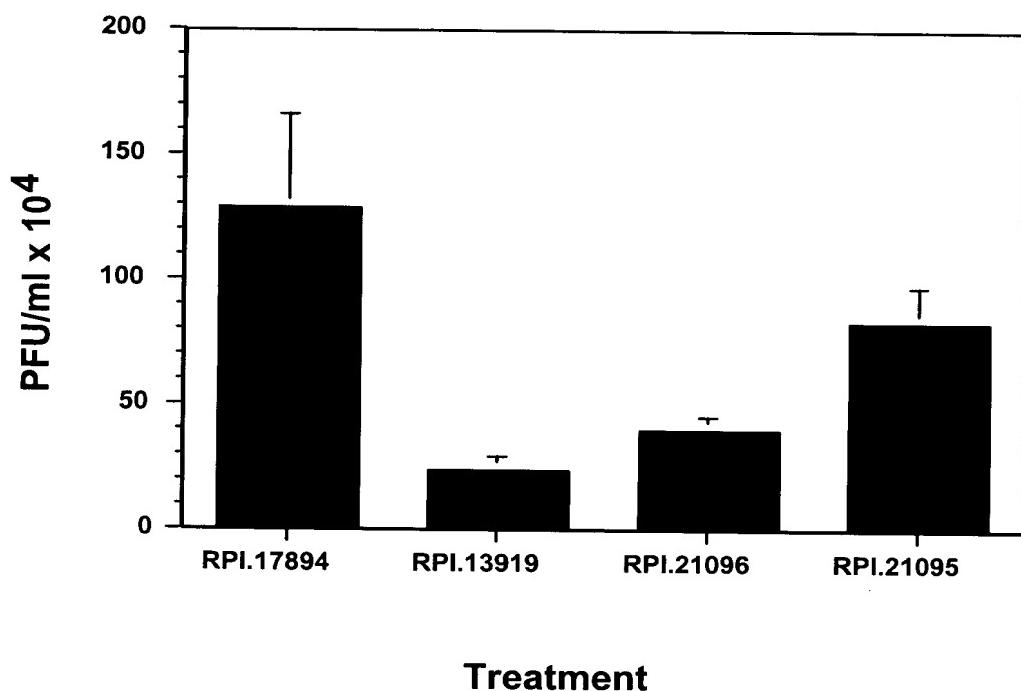


Figure 37: Inhibition of viral replication with anti-HCV ribozyme or 2-5A treatment



**Figure 38: Anti-HCV ribozyme in combination
with 2-5A treatment**

